ECONOMIC IMPACT OF THE CORONAVIRUS PANDEMIC

2ND OCTOBER 2021



What's new?

The world

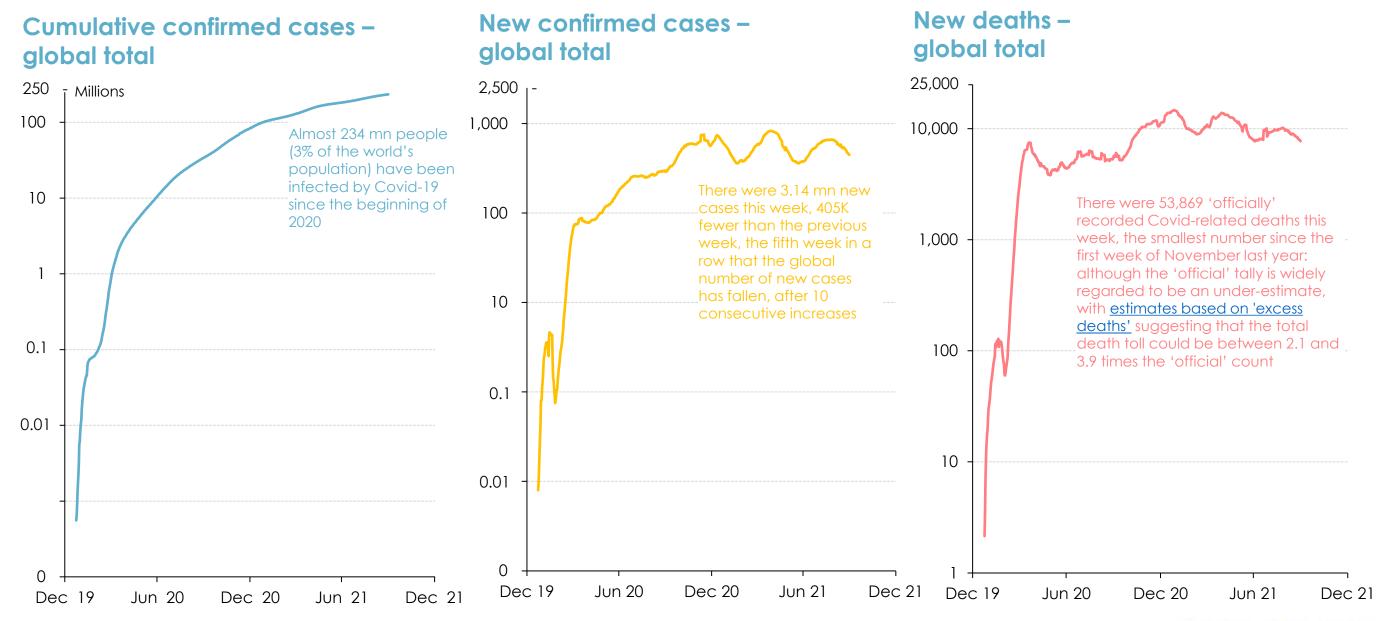
- 3.2 mn new Covid-19 cases were recorded this week, the fifth consecutive decline and the lowest number in 12 weeks (slide 4)
- It's possible that the run-up in commodity prices and the sharp increases in shipping freight rates (which have been the source of much of the pick-up in inflation this year) may have peaked (slide 40) ...
- ... with the important exception of the on-going surge in natural gas prices in both Asia and Europe, which ECB President Christine Lagarde this week identified as one of a number of factors (along with the 'green transition') which could result in higher inflation persisting for longer than previously expected (slide 35)
- The US personal consumption expenditure price deflator excluding food & energy (the Fed's 'preferred' inflation gauge) rose 0.3% in August, the same as in July, down from 0.5-0.6% in each of the preceding three months (slide 74), with the detail of the PCE deflators again highlighting the outsized impact of hikes in motor vehicle prices and tourism-related services to the earlier 'spike' in inflation (slide 75)
- ☐ In Japan both consumers and large businesses are becoming more optimistic (although small businesses remain gloomy), despite a fall in employment in August (slide 55)
- □ Vietnam's economy shrank by 6.2% in Q3 by comparison with Q3 last year, its sharpest downturn in at least 30 years, as a result of the spread of the 'delta variant' (slide 56)
- ☐ The Czech and Mexican central banks raised their policy interest rates this week for the third time this year (the former by more than expected), and Colombia raised its for the first time (slides 87-88)

Australia and New Zealand

- Australia recorded 13,228 new infections this week, the highest number since the onset of the pandemic (<u>slide 13</u>)
- ☐ This week's renewed upturn in case numbers was the result of a surge in Victoria, which authorities attributed to 'illegal gatherings' during the football grand final long weekend (slide 14)
- □ Vaccination rates have risen rapidly in NSW (slide 18) which combined with the downward trajectory in case numbers means that restrictions are likely to be eased further there this month and Victoria is likely to by December but other states with far less 'lockdown experience' and lower tolerance for covid cases seem likely to keep their borders closed for longer, perhaps presaging a period where there may be (in effect) "two Australias"
- Retail sales fell another 1.7% in August, with declines of 3.5% in NSW and 3% in Victoria, again underscoring that the Australian economy is experiencing a second (albeit short) recession (slide 123)
- However residential property prices continued rising in September, albeit at a slightly slower pace for the second consecutive month, to be 18% above their pre-covid peak (slides 125-126)
- ☐ The upward trend in property prices is being driven by investors, whose share of total mortgage lending has risen by 7 pc points so far this year, while first home buyers' share has fall by the same amount (slide 127)
- Residential building approvals rose 6.8% in August, after four consecutive monthly declines following the cessation of elevated cash grants to first home buyers in March (slide 128)
- The independent Parliamentary Budget Office assessed Australia's fiscal position as being 'sustainable' under a wide range of economic scenarios, but noted that relied heavily on 'bracket creep' (slides 148-151)

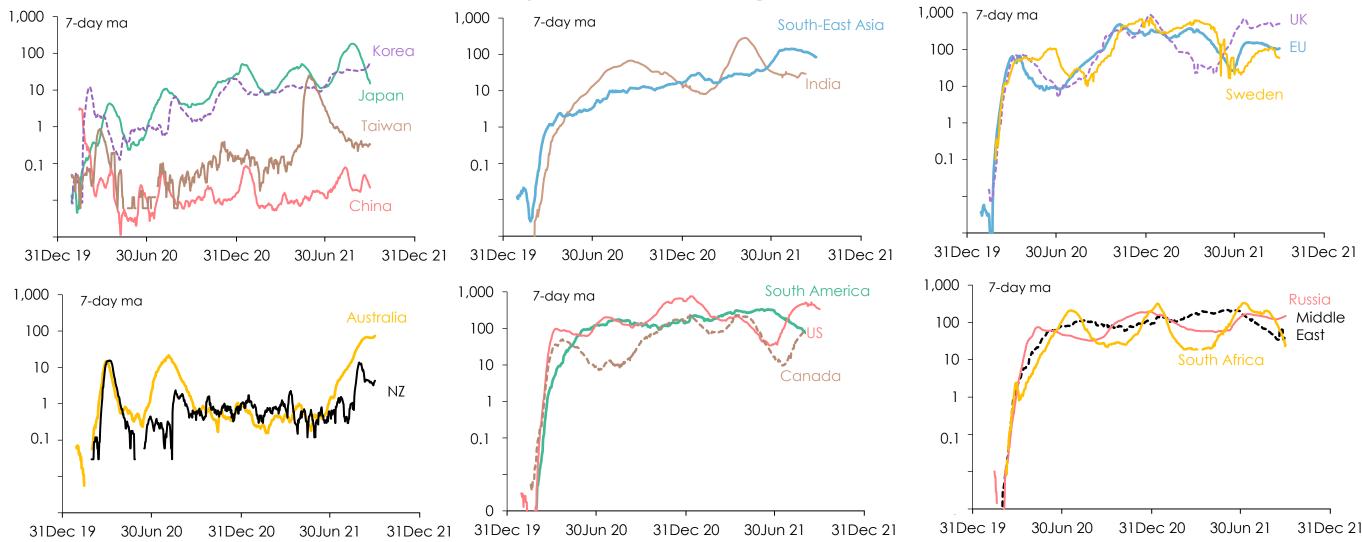
The virus

The global 'delta wave' does appear to have peaked, with both cases and deaths now declining for several weeks



Europe accounted for 26% of all new cases this week, the US 25%, SE Asia $12\frac{1}{2}$ %, the Middle East 11%, South America and India $5\frac{1}{2}$ % each



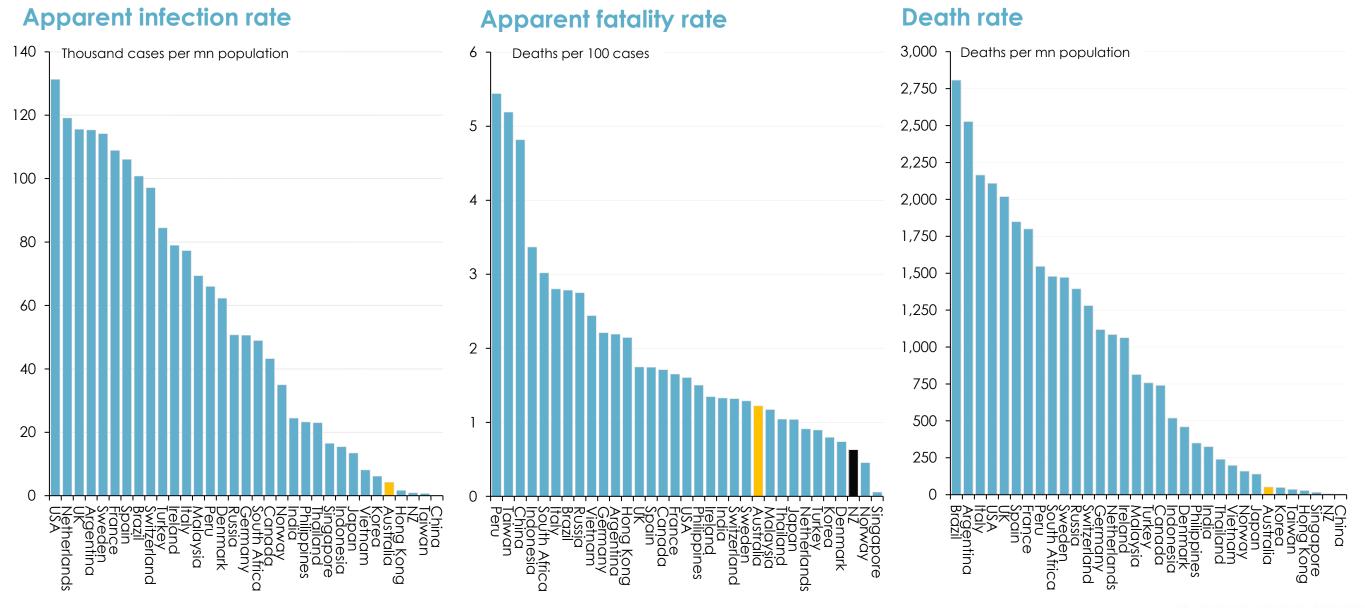


□ The US also accounted for 24½% of all officially-recorded covid-related deaths this week, Europe 22%, SE Asia 11½%, Russia 10½%, South America 9½% and the Middle East 7¼%

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INDEPENDENT ECONOMICS

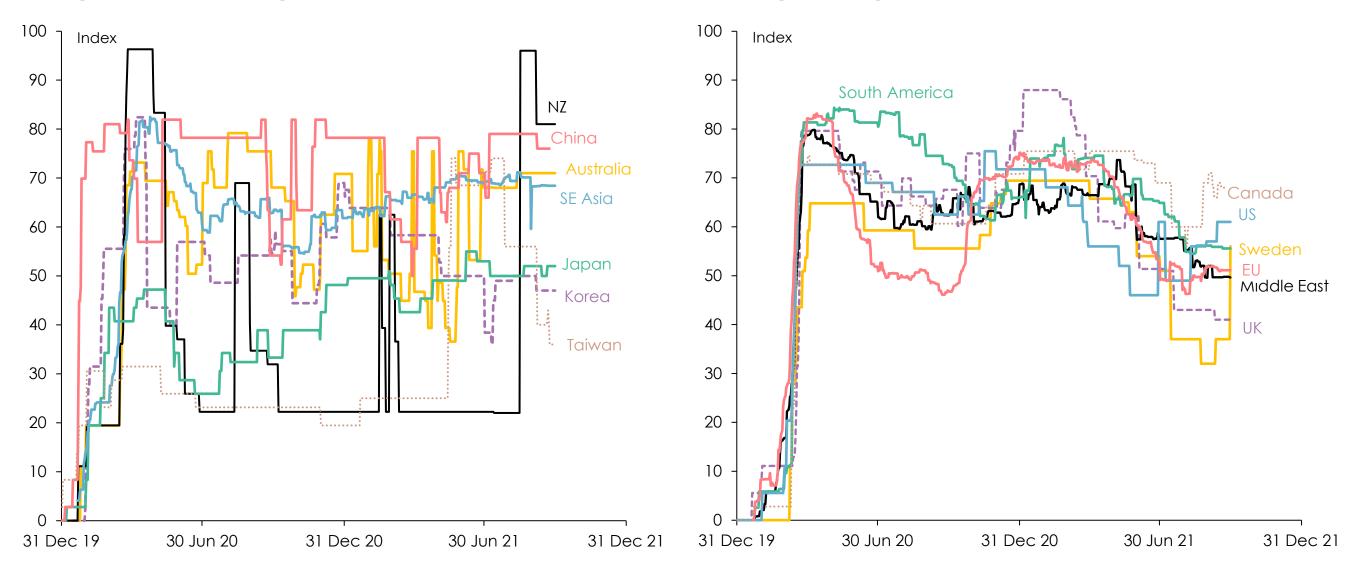
The highest cumulative infection and death rates (since the onset of the pandemic) have been in Europe, South and North America





Restrictions have been eased in some Asian and European countries in the past few weeks, but tightened in parts of the US, and in Sweden

Timing and severity of government restrictions on movement and gathering of people

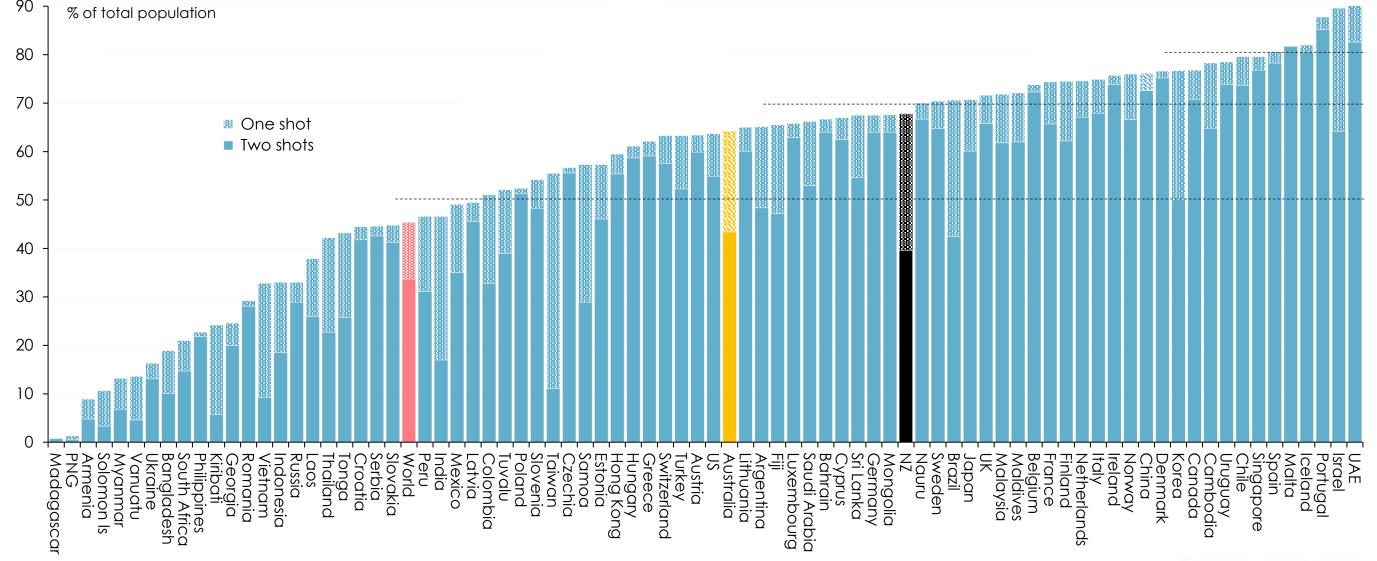


The Oxford COVID-19 Government Response Tracker collects publicly available information on 11 indicators of government response including school & workplace closures, public events cancellations, restrictions on public gatherings, stay at home requirements, public transport closures, domestic & international travel restrictions, public information campaigns, testing and contact tracing. Source: <u>Blavatnik School of Government, Oxford University</u>. Series for South-East Asia, the EU, South America and the Middle East are population-weighted averages for individual constituent countries. Data up to 30th September. <u>Return to "What's New"</u>.



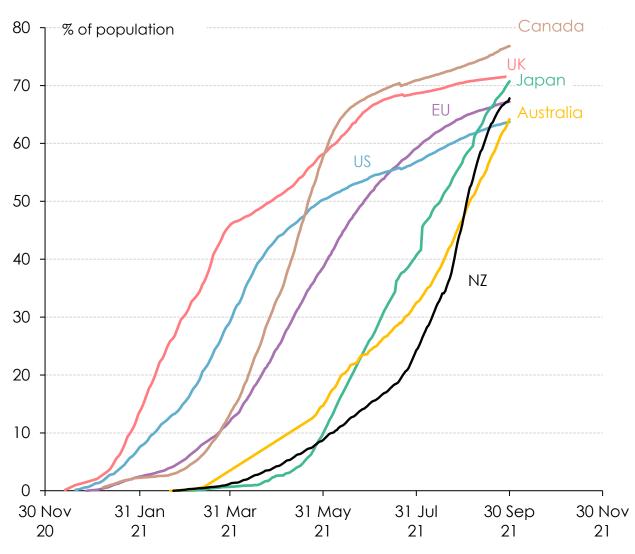
12 countries have now fully vaccinated more than 70% of their population, another 6 are close to that threshold, and 12 more are over 50%

Percentage of population who have had at least one vaccination shot as at 28th-30th September

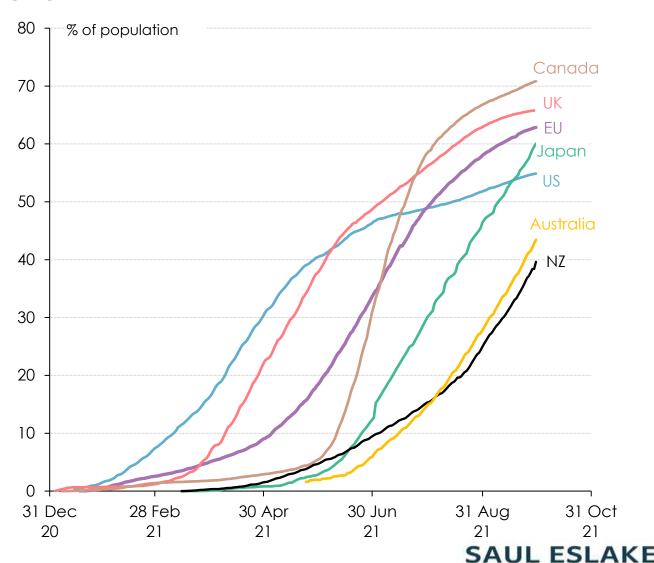


Progress of vaccinations has slowed in Canada, the US, UK and Europe in recent weeks but has picked up in Japan, Australia and New Zealand

Percentage of major 'advanced' economies' populations who have had one shot



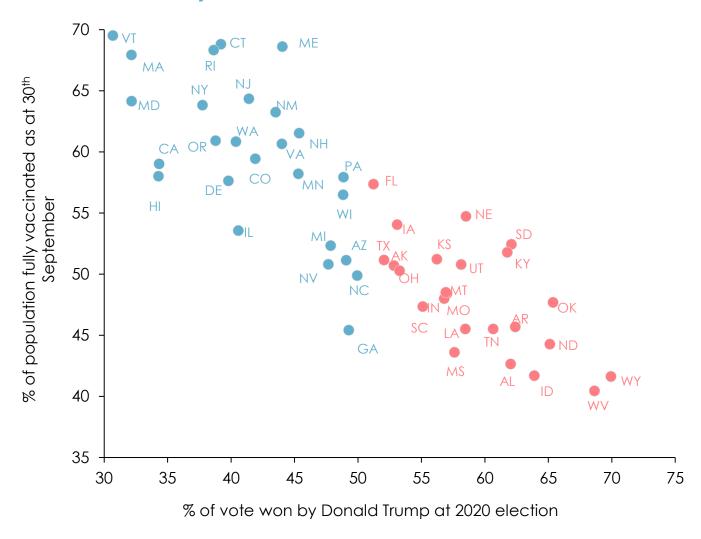
Percentage of major 'advanced' economies' populations who have had two shots



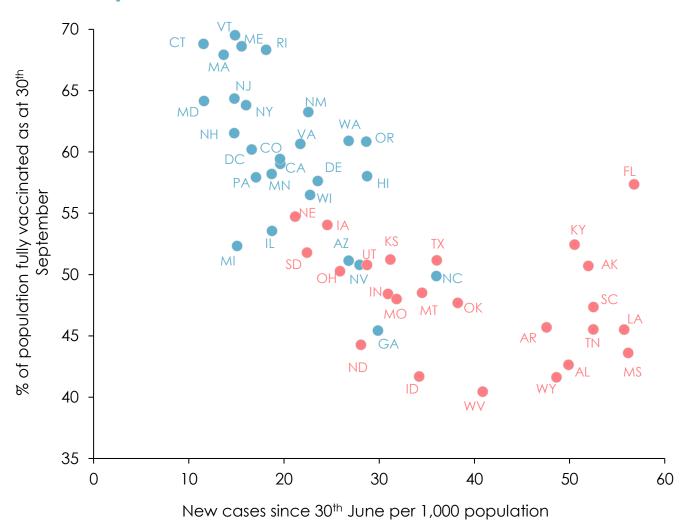
INDEPENDENT ECONOMICS

In the US there's a strong correlation between voting patterns and vaccine hesitancy, and between vaccination rates and infection rates

Vaccination rates vs Trump vote at 2020 elections, by state



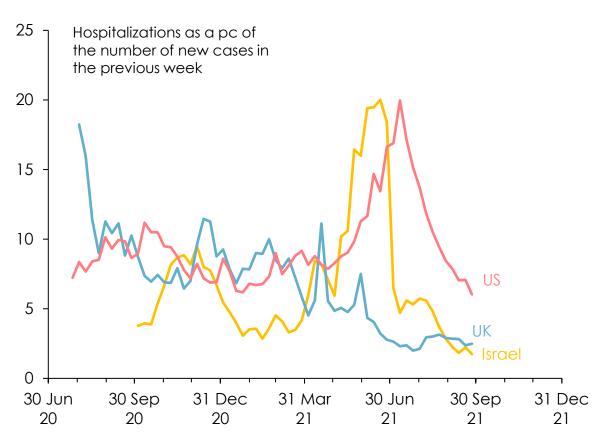
Vaccination rates vs infection rates since 30th June, by state



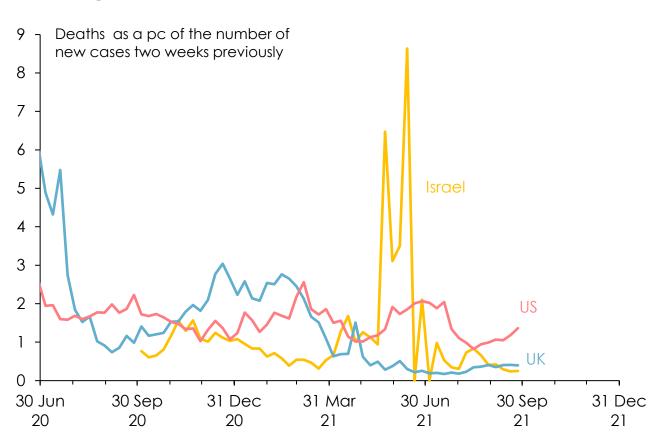


Although vaccination appears not to prevent the 'delta variant' from spreading, it does appear to reduce hospitalization and death rates

Hospitalization rates



Fatality rates



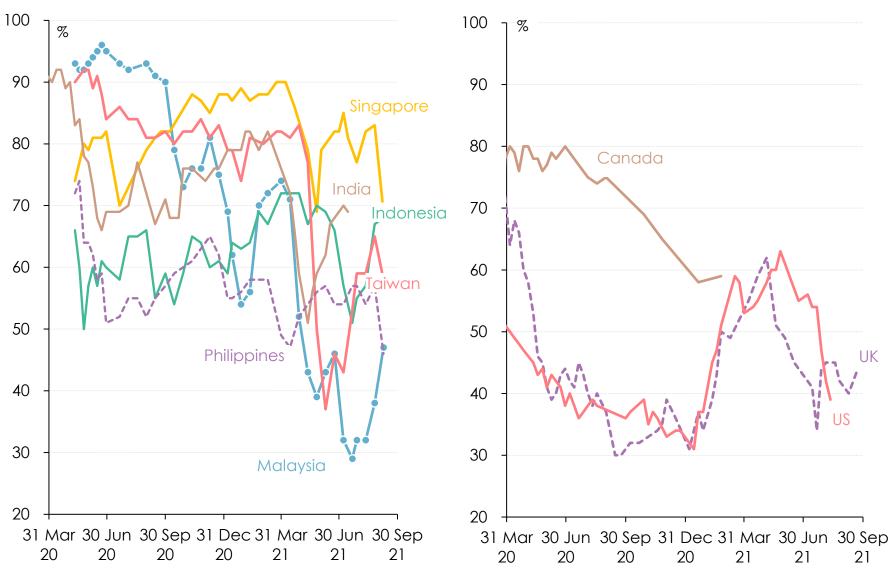
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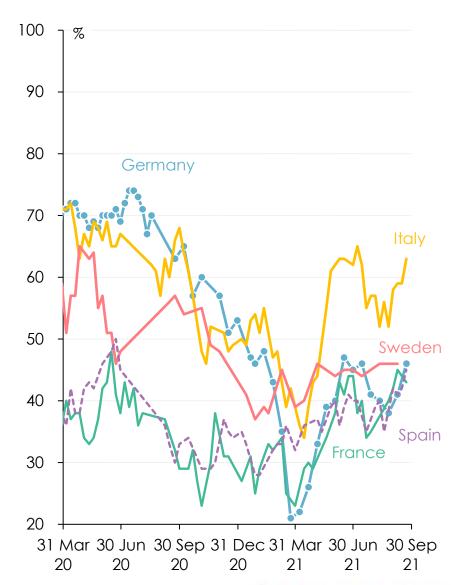
INDEPENDENT ECONOMICS

- □ Israel, the UK and the US have all experienced a surge in the number of 'delta variant' cases in recent weeks
- In the US, the increase in cases is <u>concentrated in states and counties where vaccination rates are well below the national average</u> (see previous slide)
- In Israel, the UK and those US states with above-average vaccination rates, hospitalization and death rates from Covid-19 as the delta variant has spread have been much lower than they were in 2020
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Voter approval of governments' handling of Covid has improved in recent weeks in Indonesia, Malaysia & Europe, but fallen in Singapore & Taiwan

Voter approval of their government's handling of the coronavirus pandemic

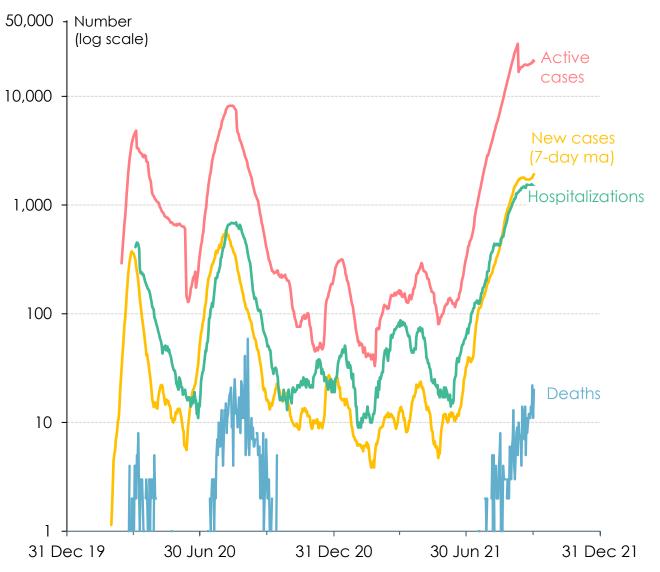




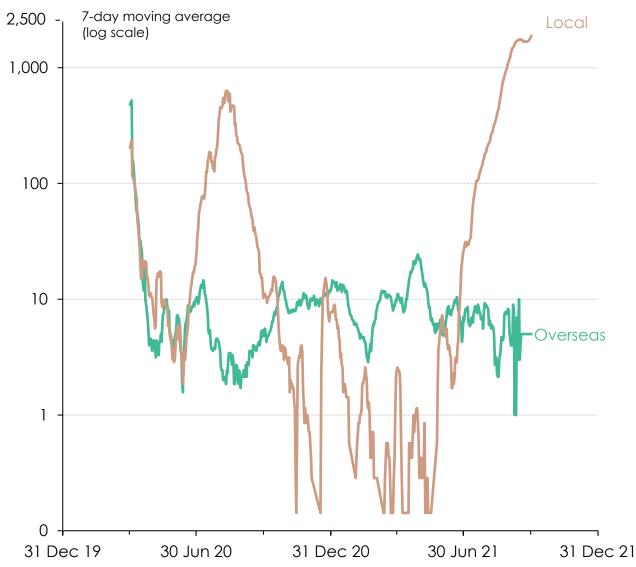


Australia recorded 13,228 new infections this week – the highest number since the pandemic began in March last year

Cases, recoveries, hospitalizations and deaths

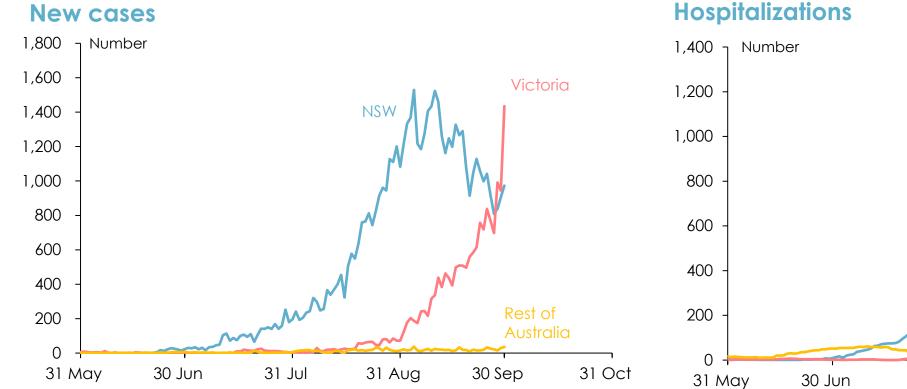


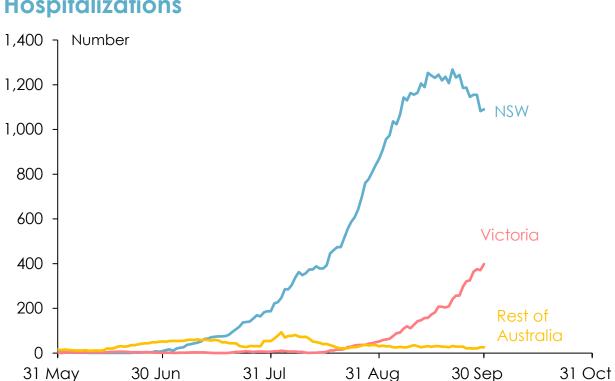
New cases, by source





The increase in the number of new cases this week was entirely attributable to a surge in Victoria





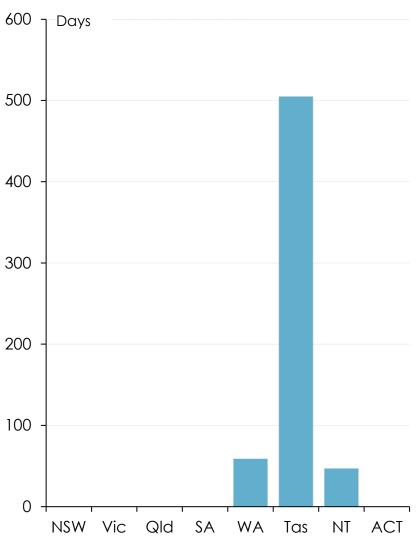
INDEPENDENT ECONOMICS

- ☐ Victoria recorded a dramatic surge in the number of new infections this week to a higher level than recorded during last year's 'second wave' which Victorian authorities attributed to <u>"illegal gatherings and house parties"</u> over the Australian Football League grand final long weekend
- By contrast the number of new infections in New South Wales has continued to decline (the 7-day moving average is now down 35% from its peak in mid-September), and with NSW's full-vaccination rate (of the ≥16 population) approaching 70% (slide 18) restrictions are likely to be eased further from around mid-October
- □ A clear difference in 'risk tolerance' is emerging between NSW, Victoria and the ACT who are now willing to 'live with' some Covid and the other states and the NT, which are maintaining a 'zero tolerance' approach

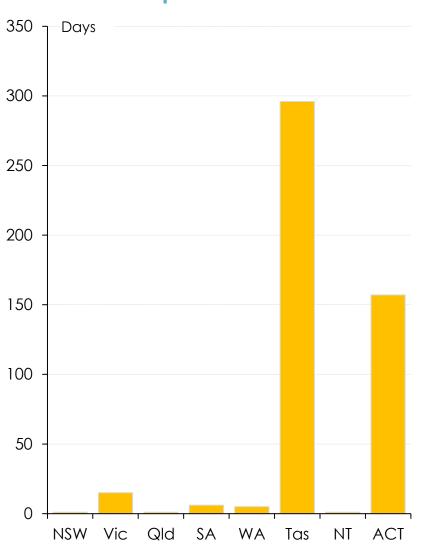
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The smaller states and territories have done better at keeping the virus at bay, partly because they receive fewer overseas arrivals

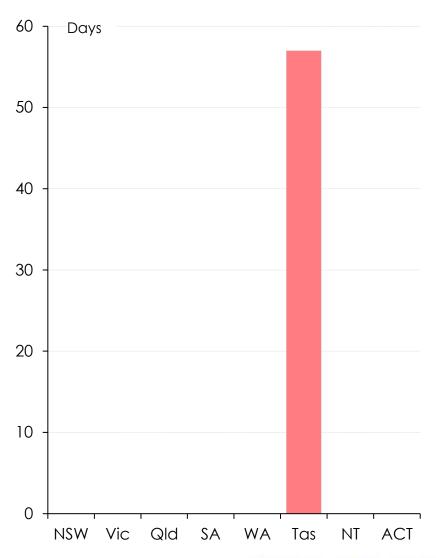
Days since last new locally-acquired case



Days since last new overseas-acquired case



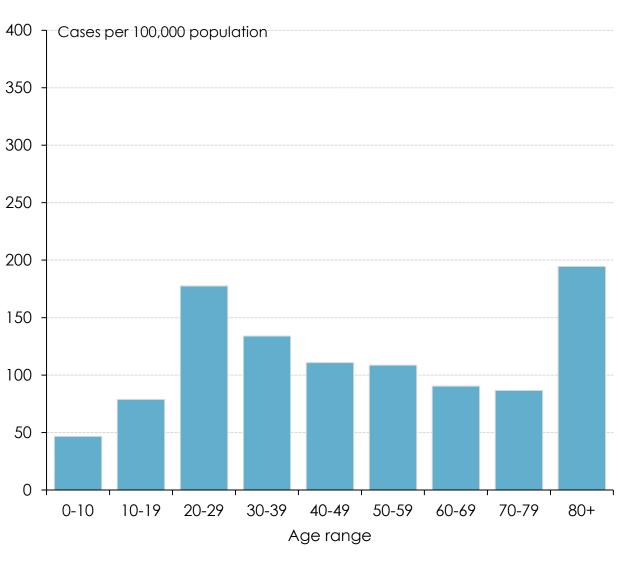
Days since there were any active cases



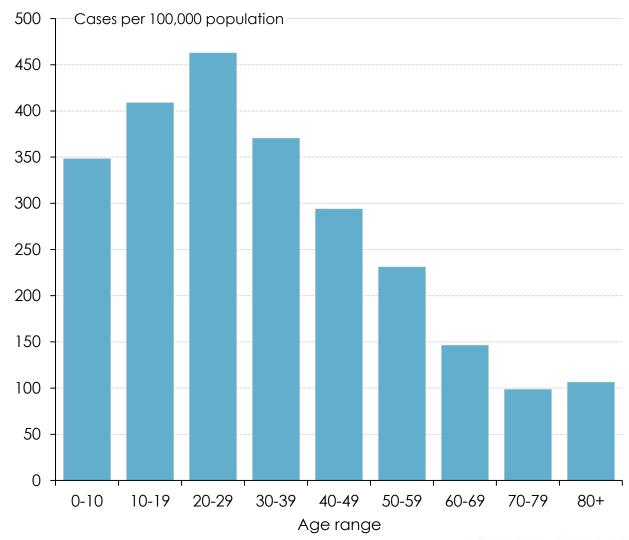


People in their 20s & 30s have been more likely to become infected than other age groups this year – partly because fewer have been vaccinated

Cumulative confirmed cases per 100,000 population, by age group – 2020



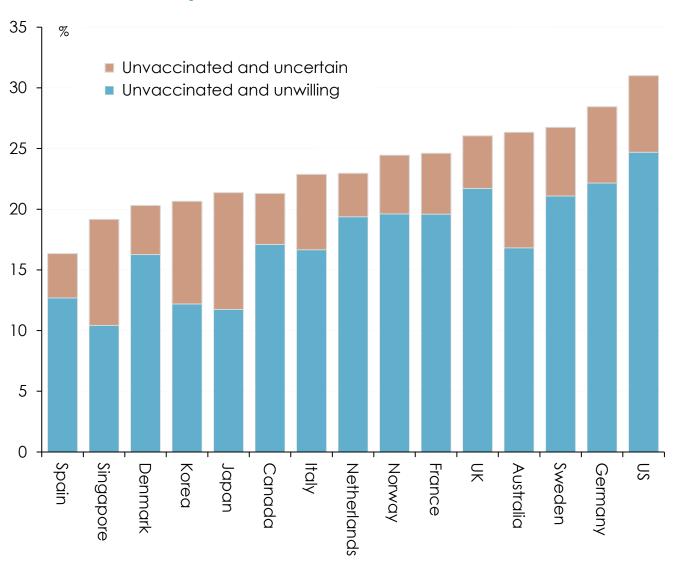
Cumulative confirmed cases per 100,000 population, by age group – 2021 to date



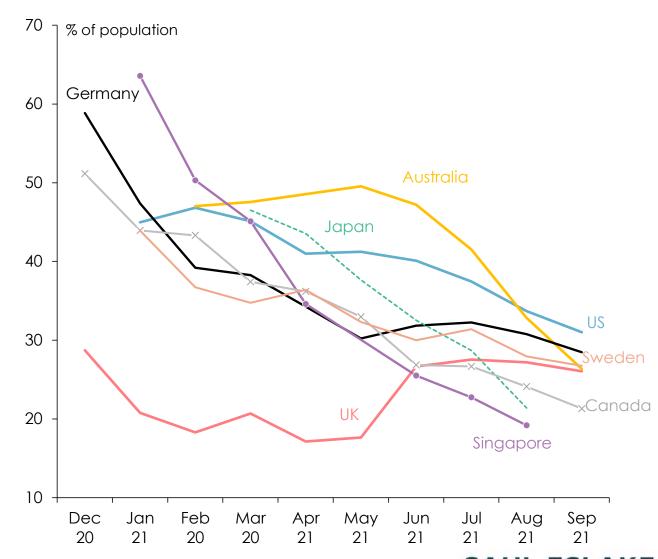


Vaccine hesitancy among Australians was the highest in the 'developed' world, but has fallen sharply in the past four months

Covid-19 vaccine hesitancy, selected 'advanced' economies, September 2021



Percentage of populations unvaccinated and unwilling or uncertain about getting vaccinated

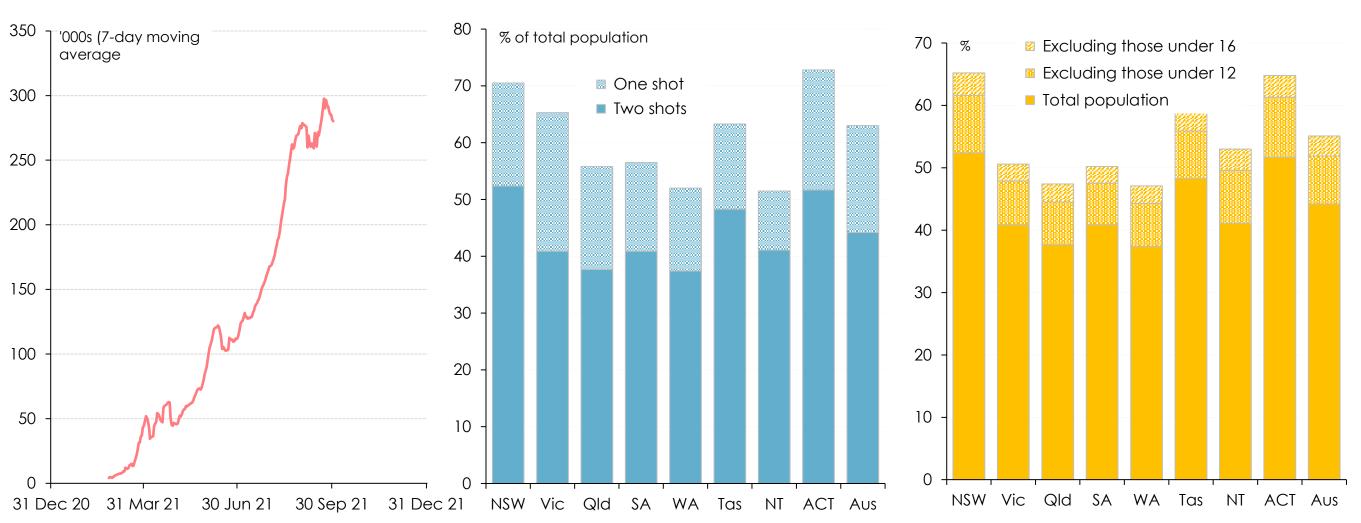


Vaccination rates have risen sharply over the past two months, particularly in NSW – but there's a fair bit of 'fudging' with the denominators of these 'rates'

Daily number of vaccines administered

Percentage of <u>total</u> population vaccinated, states and territories

Percentage of populations doublevaccinated, states and territories

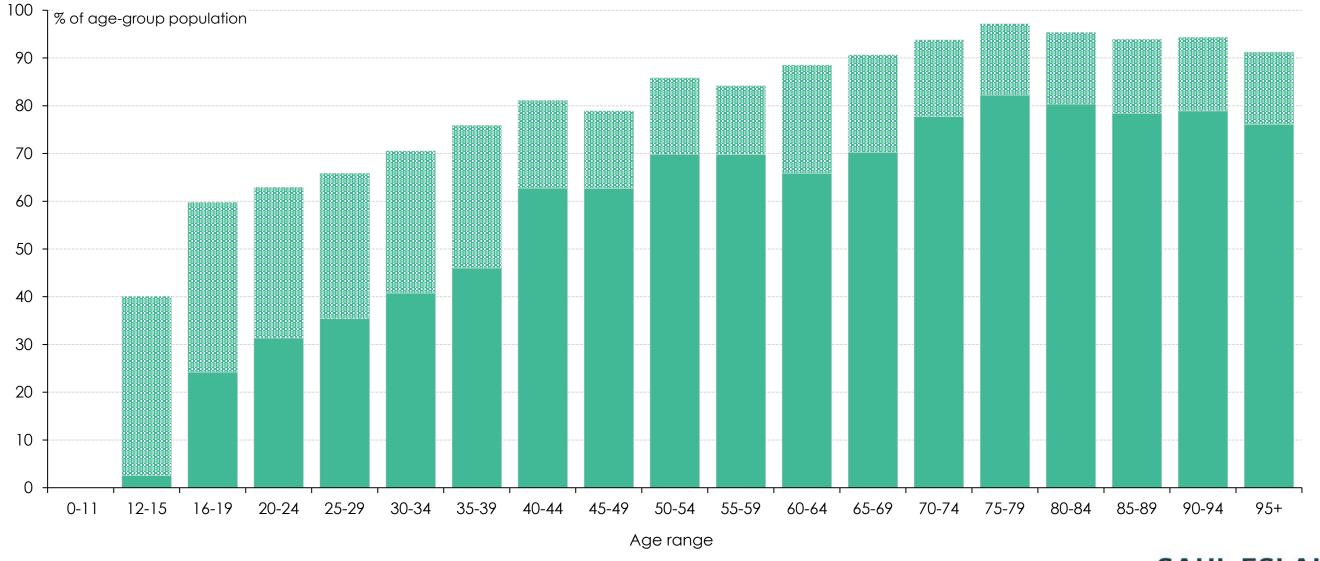


Note: Data up to 1st October. The Federal and State Governments usually cite vaccination rates as percentages of the 'eligible' population – which currently excludes children under the age of 16; the third chart on this page shows vaccination rates as percentages of the total population including children. See also comparisons with other nations on slides 8 and 9. Sources: covid19data.com.au; Australian Department of Health, Australia's COVID-19 vaccine rollout. Return to "What's New".



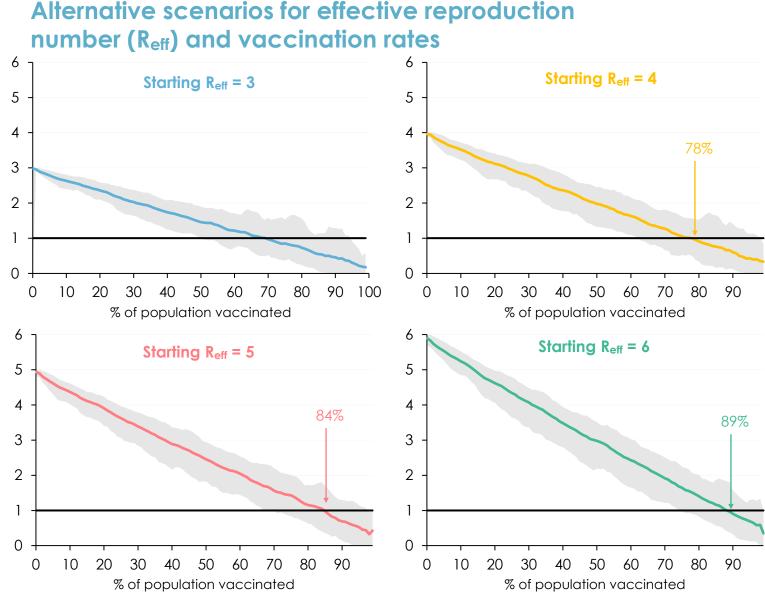
Almost 80% of those aged 70 & over are now fully vaccinated – but only 39% of 20-39 year-olds (who account for the largest number of cases) have been

Vaccination rates by age group as at 1st October





Modelling suggests that a vaccination rate of at least 80% of the <u>total</u> population (not just those ≥16) will be required in order to 'open up' safely



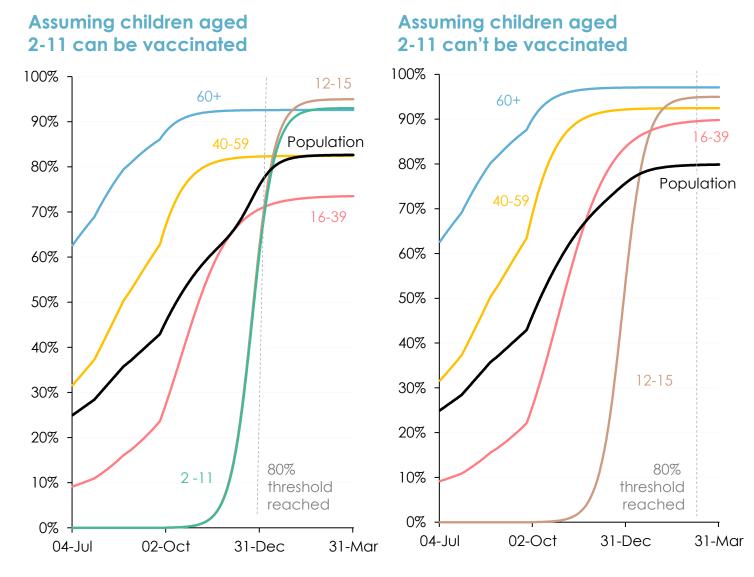
Note: Solid lines show the mean outcomes of the model simulations, while shaded areas show the 10th and 90th percentiles of the simulations. Source: Stephen Duckett, Danielle Wood, Brendan Coates et al, <u>Race to 80: Our best shot at living with Covid</u>, Grattan Institute, 27th July 2021.

- Modelling released in July by the Grattan Institute (a Melbourne-based non-aligned policy 'think tank') suggests that, on the assumption that the starting 'Reff' (the number of people likely to be infected by each unvaccinated person) for the 'delta variant' of Covid-19 is at least 4, at least 80% of the total population would need to be vaccinated in order to get the 'Reff' down to less than 1 (at which point the virus doesn't spread)
- The modelling suggests that 'opening up' (removing international border restrictions) with vaccination rates of less than 70% and assuming an initial 'Reff' of 4 or more would likely result in daily infections peaking at more than 70,000, ICU cases peaking at over 8,000 (more than the hospital system's capacity) and between 8,000 and 120,000 deaths
 - The Federal Government's 'National Plan' envisages steps towards 'opening up' starting once 70% of the national 'eligible' population (ie excluding children) have been vaccinated



Because the Government's vaccination targets are expressed in terms of the 'eligible' population there may be some risk of opening up 'too early'

Plausible vaccination rates by age group



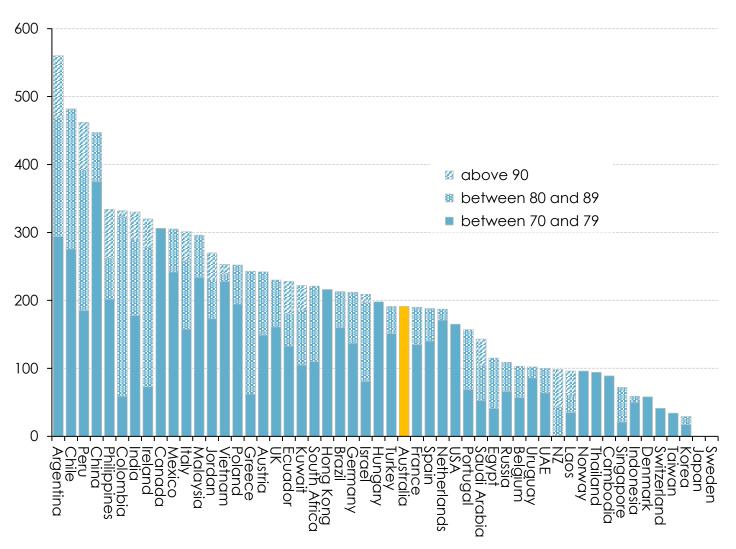
- The Federal Government's 'National Plan to transition Australia's National COVID-19 Response' (based on Doherty Institute modelling) specifies 70% and 80% 'full vaccination rates' as thresholds for the progressive easing of restrictions
- These thresholds are expressed as percentages of the 'eligible population'- ie people aged 16 and over
- however 193/4% of Australia's population is aged under 16
- so 70% (or 80%) of the 'eligible' population represents only
 56% (and 64%) of the <u>total</u> population
- alternatively, if children under the age of 16 can't be vaccinated, for 70% of the total population to have been fully vaccinated requires 87% of the 'eligible' population to have been fully vaccinated
- ☐ The Doherty Institute modelling used to underpin these targets also assumes an 'optimal' TTIQ (test, trace, isolate and quarantine) capability
 - which recent experience in NSW and Victoria suggests is dubious in the presence of high case numbers
- There would thus appear to be a non-trivial risk that Australia could ease restrictions 'too early' (as Israel and the UK did) possibly resulting in another surge in infections when restrictions are eased

Source: Stephen Duckett, Danielle Wood, Brendan Coates et al, <u>Race to 80: Our best shot at living with Covid</u>, Grattan Institute, 27th July 2021; Department of Prime Minister and Cabinet, <u>Doherty Institute COVID-19</u> <u>modelling - Key findings and implications</u>, 3rd August 2021.

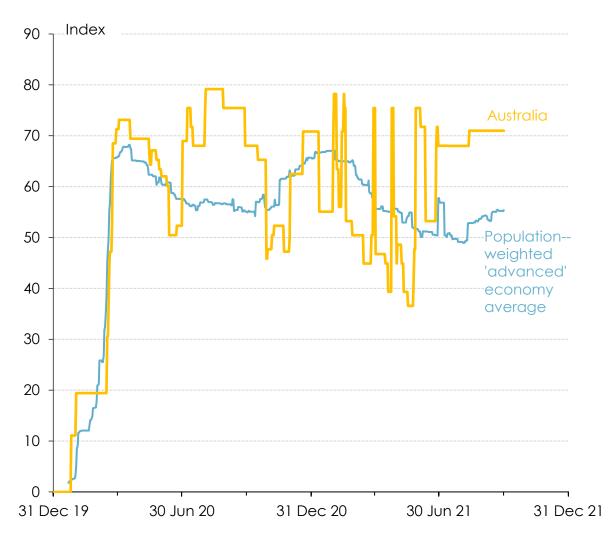


Australia's health restrictions are now significantly more onerous than in other 'advanced' economies, on average

Number of days for which the stringency of restrictions has been above 70 on the Oxford Index



Stringency of Australia's restrictions compared with an average of other 'advanced' economies

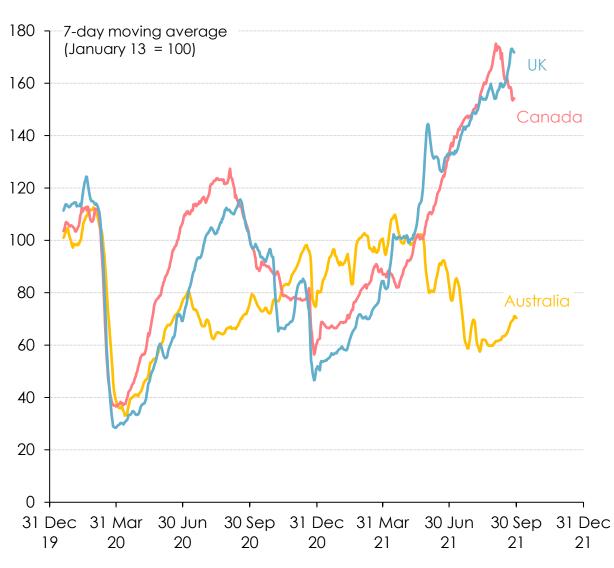


The Oxford COVID-19 Government Response Tracker collects publicly available information on 11 indicators of government response including school and workplace closures, public events cancellations, restrictions on public gatherings, stay at home requirements, public transport closures, domestic and international travel restrictions, public information campaigns, testing and contact tracing. Source: <u>Blavatnik School of Government, Oxford University</u>. Data up to 30th September. <u>Return to "What's New"</u>.

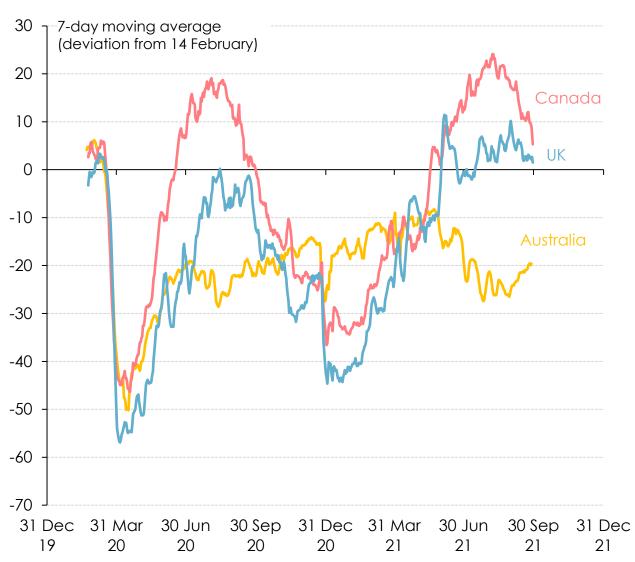


Mobility indicators give some sense of how more onerous restrictions are now affecting Australia's economy compared with (eg) Canada & the UK

Apple mobility indicators



Google non-residential activity mobility indicators



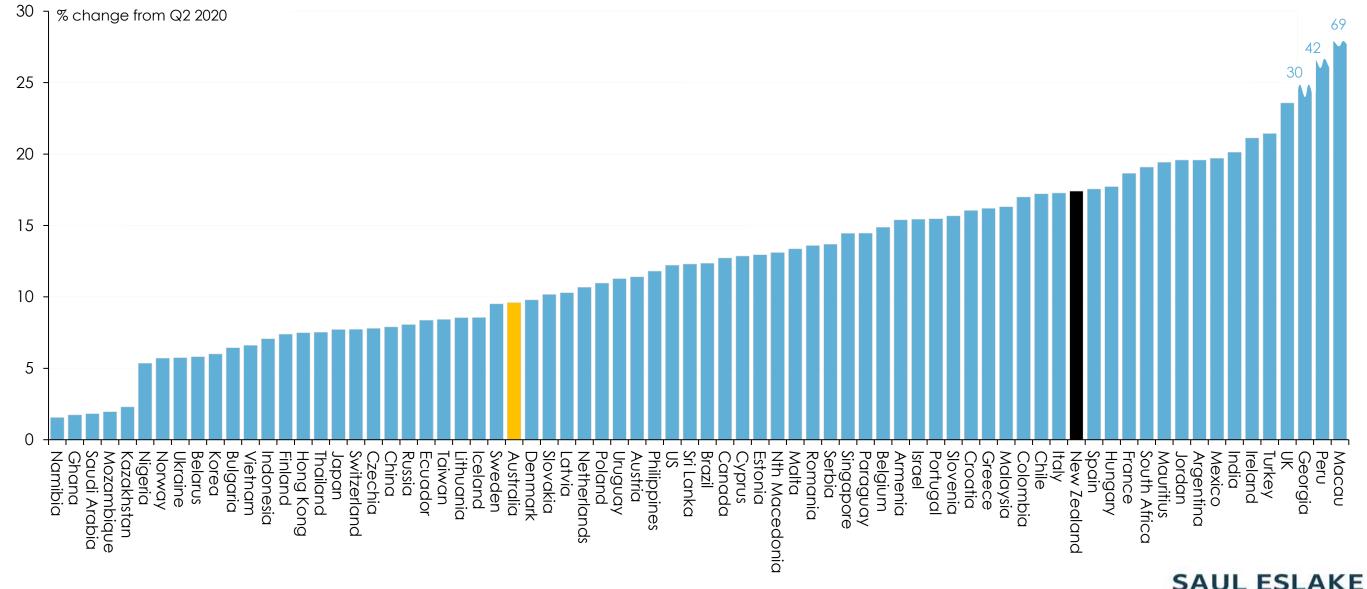
Note: 'Apple mobility indicator' is the average of three separate indicators for driving, use of transit and walking (data up to 30th September). Google 'non-residential activities' indicator is the average of separate indicators for workplaces, retail and recreation, groceries and pharmaceuticals, transit and parks (data up to 27th September). Sources: Apple, Mobility Trends Reports; Google, Covid-19 Community Mobility Reports; Corinna Economic Advisory. Return to "What's New".



The world

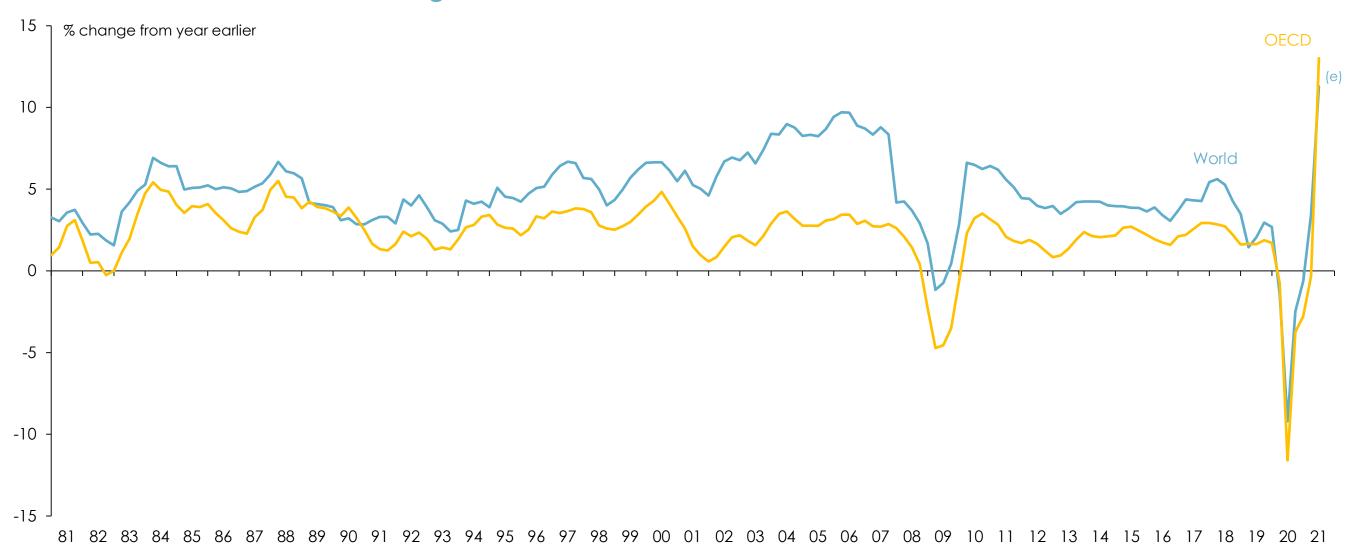
Of 74 countries which have now reported Q2 GDP estimates, 45 have recorded double-digit growth from last year's pandemic-induced trough

Growth in real GDP over the year to Q2 2021



The world economy likely grew by about 11% over the year to Q2 – a figure which is vastly flattered by comparison with last year's trough

World and OECD area real GDP growth

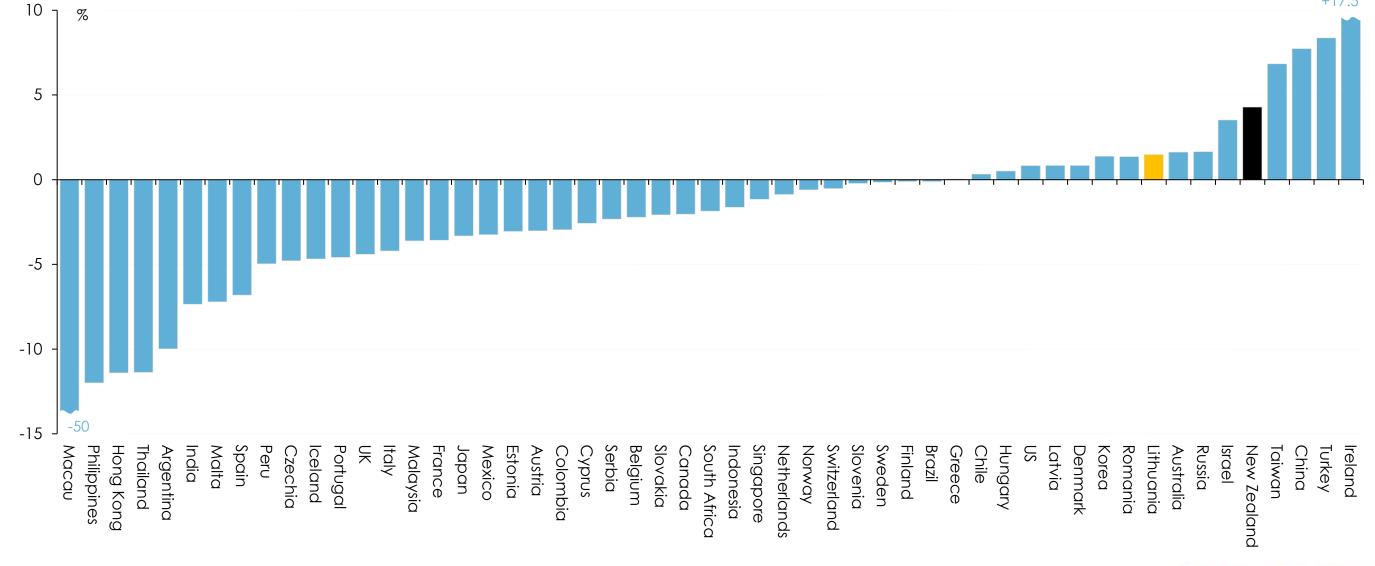


Note: Estimates of global GDP growth compiled by Corinna using data for 100 countries accounting for 94% of 2019 world GDP as measured by the IMF, weighted in accordance with each country's share of global GDP at purchasing power parities in 2019; excludes constituents of the former USSR before 1993, the former Czechoslovakia before 1995, and the former Yugoslavia before 1998. (e) Estimate for Q2 2021 is based on published results the countries shown in the previous slide. Sources: national statistical agencies and central banks; Eurostat; OECD; IMF; Corinna. Return to "What's New".



Only 16 countries (out of 51 for which seasonally-adjusted Q2 GDP estimates are available) have exceeded their pre-pandemic peaks

Q2 2021 real GDP compared with pre-recession peak





The more 'advanced' Asian economies, Australia's & NZ's and the US's, have recovered more rapidly from last year's recessions than Europe's

Levels of real GDP indexed to Q4 2019 = 100



Note: All series shown are seasonally adjusted, except for China's which has been constructed using the estimates of quarterly changes in real GDP published by the China National Bureau of Statistics. Sources: National statistical agencies, Eurostat and Bank of Korea; Corinna.



The OECD last week made minor changes to its global growth outlook but with the US forecast for 2021 down 0.9 pc pt and the euro zone up 1 pc pt

Major global institutions' growth forecasts for 2020, 2021 and 2022 compared

	Actual		IMF		World Bank		OECD		Australian Treasury	
	2019	2020	2021	2022	2021	2022	2021	2022	2021	2022
US	2.2	-3.5	7.0	4.9	6.8	4.2	6.0	3.9	6.5	3.5
China	5.8	2.3	8.1	5.7	7.7	5.3	8.5	5.8	8.5	5.5
Euro area	1.3	-6.6	4.6	4.3	4.2	4.4	4.3	4.6	4.5	4.0
India	4.0	-8.0	9.5	8.5	8.3	7.5	6.7	9.9	11.0	5.8
Japan	0.3	-4.8	2.8	3.0	2.9	2.6	2.5	2.1	3.5	1.8
UK	1.4	-9.9	7.0	4.8	na	na	6.7	5.2	na	na
Australia	1.9	-2.4	5.3	3.0	na	na	4.0	3.3	4.3*	2.5*
New Zealand	2.2	-3.0	4.0	3.2	na	na	3.5	3.8	3.2 [†]	4.4 [†]
World	2.8	-3.3	6.0	4.9	5.6	4.3	5.7	4.5	6.0	4.5
World trade	0.9	-8.5	9.7	7.0	8.3	6.3	na	na	na	na

Note: * Forecasts for fiscal years beginning 1st July (and finishing 30th June following year) the Forecasts by New Zealand Treasury for fiscal years beginning 1st July Sources: International Monetary Fund (IMF), World Economic Outlook Update, 26th July 2021; The World Bank, Global Economic Prospects, 8th June 2021; Organization for Economic Co-operation & Development (OECD), Economic Outlook, Interim Report, 21st September 2021; Australian Treasury, 2021-22 Budget Paper No. 1, Statement No. 2, 11th May 2021; New Zealand Treasury, Budget Economic and Fiscal Update 2021, 20th May 2021. Return to "What's New".



The OECD's latest forecast includes more substantial downward revisions to forecasts for the US, Indonesia and Australia this year

OECD real GDP growth forecasts

	September forecast (%)		Revision from May (pc pts)		
	2021	2022	2021	2022	
Advanced economies					
US	6.0	3.9	-0.9	+0.1	
Euro zone	5.3	4.6	+1.0	+0.2	
Japan	2.5	2.1	-0.1	+0.1	
UK	6.7	5.2	-0.5	-0.3	
Australia	4.0	3.3	-1.1	-0.1	
Emerging economies					
China	8.5	5.8	0.0	0.0	
India	9.7	7.9	-0.2	-0.2	
Brazil	5.2	2.3	+1.5	-0.2	
Indonesia	3.7	4.9	-1.0	-0.2	
Russia	2.7	3.4	-0.8	+0.6	
World	5.7	4.5	-0.1	+0.1	

- ☐ The OECD's latest forecast for global economic growth this year and next is little changed from the one published in May
 - however, the forecast for US growth in 2021 has been revised down by almost 1 pc pt, as it has also been for Indonesia and Australia, "due to the impact of the Delta variant and temporary supply constraints", while that for the euro area has been revised up by 1 pc pt "due to higher investment spending, helped by the Next Generation EU funds"
 - the forecast continues to assume an "additional boost to infrastructure spending in the US" (which may not happen)
 - and the forecast for China hasn't changed despite clear evidence that its economy is slowing
- ☐ The OECD also emphasizes the need for ongoing "macro-economic policy support" accompanied by "effective and well-targeted structural reforms"
 - monetary policy should "tolerate" temporary overshooting of headline inflation from "transient capacity pressures" provided underlying inflation pressures are contained and "inflation expectations remain wellanchored"
 - a "premature and abrupt withdrawal of fiscal policy support should be avoided" – instead ensuring that "support continues to go to the poorest households" and that resources be "redirected to digital and low-carbon transformations"

CORINNA ECONOMIC ADVISORY INDEPENDENT ECONOMICS

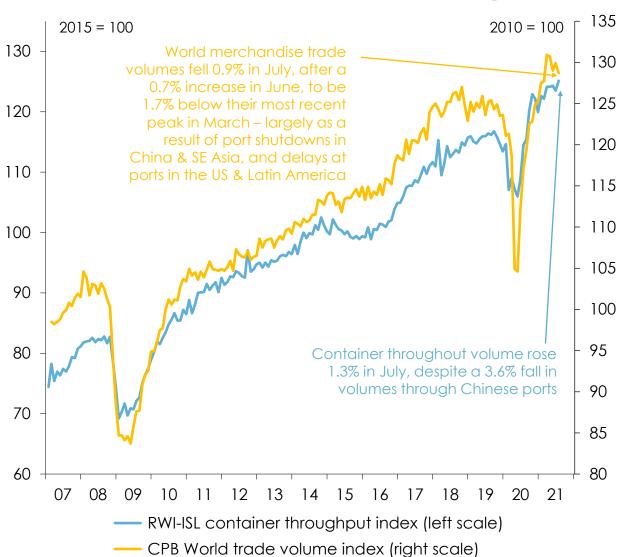
governments need to "seize the opportunity at a time when macroeconomic policies are supportive and demand is rising quickly to
accelerate reforms" (see <u>slide 143</u> for what that means
in the Australian context)

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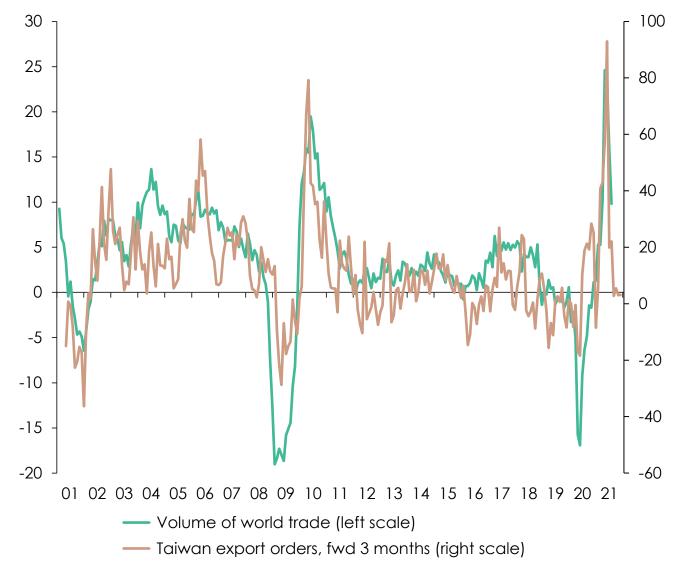
Source: OECD, <u>Economic Outlook, Interim Report</u>, 21st September 2021. <u>Return to "What's New"</u>.

World trade volumes fell in July, as a result of port closures in Asia and delays at ports in the US

World trade volumes and container throughput



Taiwan export orders and world trade volumes



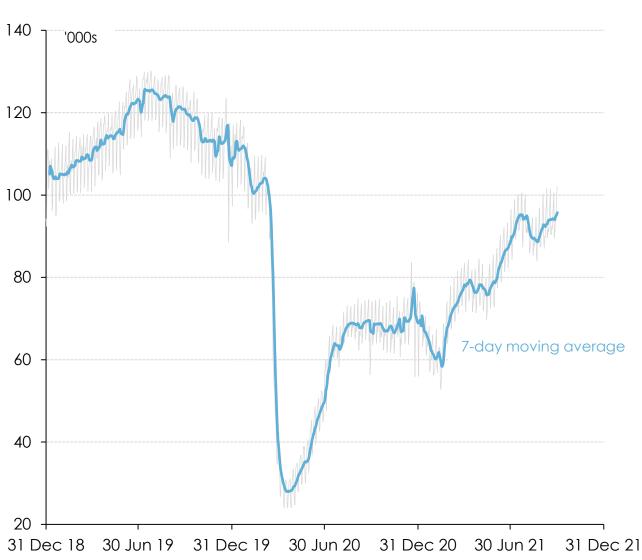
Note: The shipping container throughput index is based on reports from 91 ports around the world handling over 60% of global container shipping.

Sources: CPB Netherlands Economic Planning Bureau, World Trade Monitor (August data to be released on 25th October); Institute of Shipping Economics & Logistics (ISL) and RWI Leibniz-Institut für Wirtschaftsforschung (RWI) Container Throughput Index; Taiwan Ministry of Economic Affairs. Return to "What's New".



The upturn in new infections has had a dampening effect on global aviation – although that might now be starting to turn around

Daily commercial flights worldwide



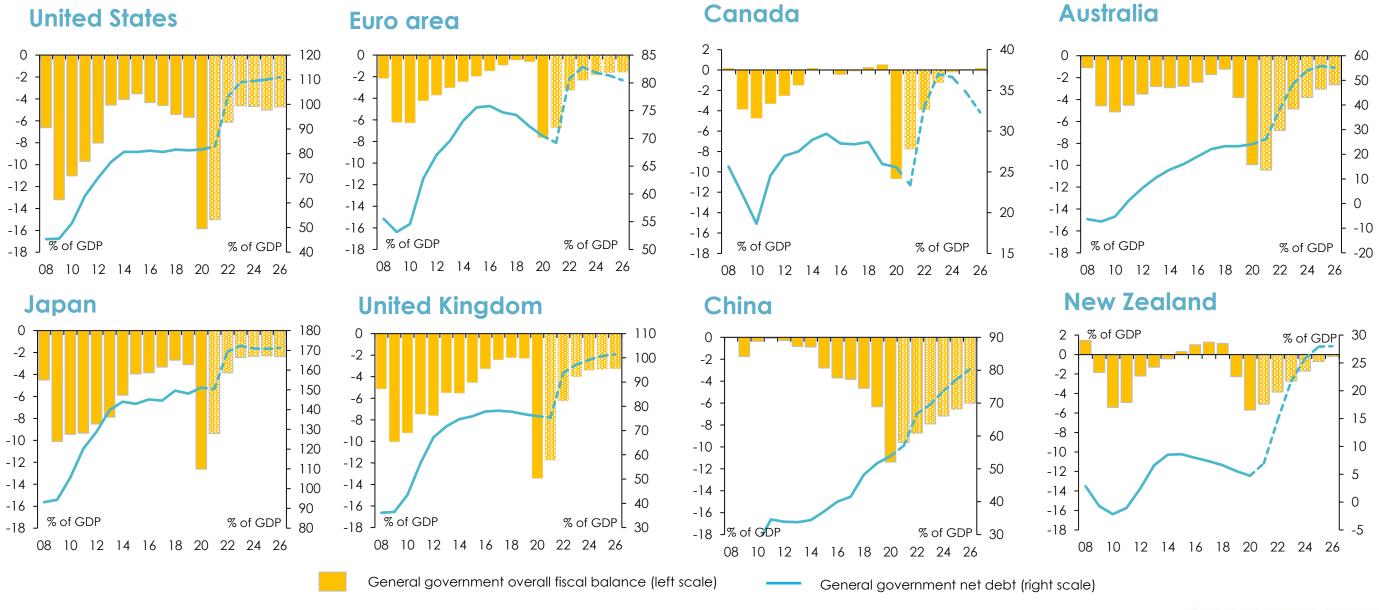
Daily US TSA 'security' checks



Note: Commercial flights include commercial passenger flights, cargo flights, charter flights, and some business jet flights. Daily flights data up to 1st October, and TSA checks up to 30th September. Thicker coloured lines are 7-day centred moving averages of daily data plotted in thin grey lines. Sources: Flightradar24.com; US Transport Safety Administration (at last, something useful produced by aviation 'security'!!!). Return to "What's New".



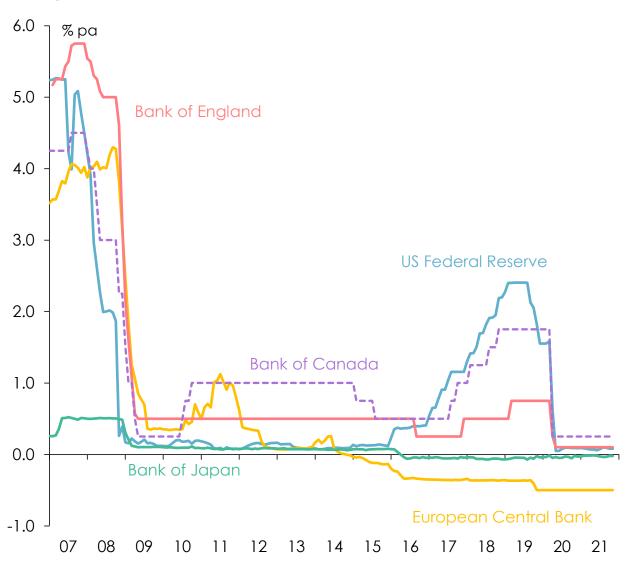
The US fiscal stimulus dwarfs that of any other major economy – although Japan, the UK, Canada and Australia are also doing a lot



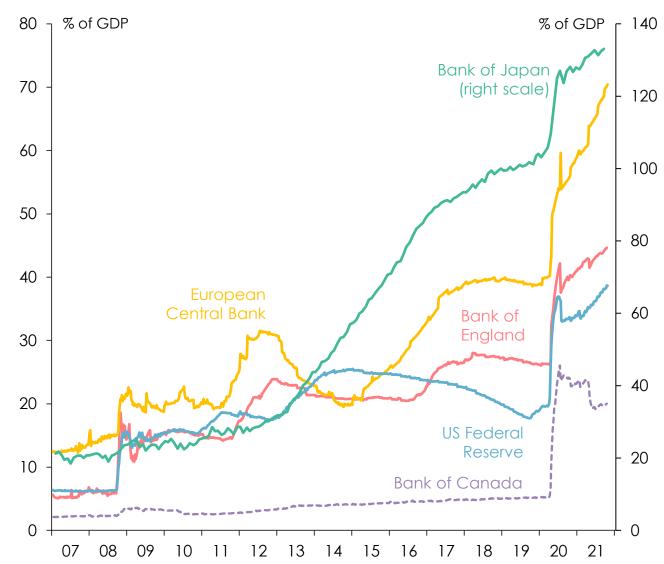


Major central banks have cut interest rates to record lows, and done more 'quantitative easing' than during the global financial crisis

Major central bank policy interest rates



Major central bank balance sheets



Note: estimates of central bank assets as a pc of GDP in Q2 2020 were inflated by the sharp drop in nominal GDP in that quarter: conversely, declines in estimates of central bank assets as a pc of GDP in Q3 2020 are in large part due to rebounds in nominal GDP. Sources: <u>US Federal Reserve</u>; <u>European Central Bank</u>; <u>Bank of Landar</u>; <u>Bank of Canadar</u>; national statistical agencies; Corinna. <u>Return to "What's New"</u>.



ECB President Christine Lagarde this week offered some interesting perspectives on the outlook for inflation

- □ ECB President Christine Lagarde offered some interesting perspectives on inflation dynamics in a <u>speech</u> given in Frankfurt on Wednesday
- □ She pointed to the chance that the "major shock to global supply chains and domestic labour markets" induced by the pandemic could push prices up
 - if firms seek (or, she could have said, are obliged by governments) to "diversify their supply chains or re-shore some of their production" in order to "prioritize resilience over efficiency", that could "lead to higher cost structures ... which are then passed on to consumers"
 - and "geopolitics might also interfere in trade patterns and accelerate these shifts"
 - these developments could offset some or all of the expected impact of "accelerated ... digitalization" on productivity, unit labour costs and prices
- ☐ She also drew attention to possible consequences for inflation of the "shift towards a low-carbon economy"
 - citing <u>estimates</u> by the Central Banks & Supervisors Network for Greening the Financial System (NGFS), the increase in auction prices in the EU's ETS, the introduction of carbon prices covering a broader range of economic activities, and the adoption of 'carbon tariffs' in Europe "could gradually increase inflation relative to its previous trend by up to 1 pc point over the transition period, before returning to that trend"
 - she cited <u>research</u> by Australian economist Warwick McKibbin (et al) that "introducing carbon taxes in euro area countries tends to raise headline inflation but lower core inflation"
 - she also noted that the "green transition" would "make the pass-through of energy prices to consumer prices more complex" it being "no longer sufficient to look mainly at oil prices", as evidenced by the influence which "the ongoing rise in natural gas prices" is now having in Europe (although she also observed that "the use of natural gas ... is only a bridge technology and will over time subside as new technologies for storage and distribution are more widely deployed"
- ☐ Her conclusion was the need "to ensure that [monetary policy-makers] do not over-react to temporary supply shocks that have no bearing on the medium term"



The Federal Reserve last week confirmed that it was likely to start 'tapering' its bond purchases later this year – and hinted that rates could rise in 2022

- ☐ The US Federal Reserve's Open Market Committee left its target for the Federal funds rate unchanged at 0-0.25% at last week's two-day meeting, as expected
 - but it <u>noted</u> that if the US economy continues to "progress ... broadly as expected" towards its "maximum employment and price stability goals", a "moderation in the pace of asset purchases" (ie, 'tapering') "may soon be appropriate"
 - at his post-meeting press conference Fed Chair Jerome Powell <u>clarified</u> that this meant "a gradual tapering process that concludes around the middle of next year" – but sought to emphasize that this prospective 'tapering' "will not be intended to carry a direct signal regarding the timing of interest rate liftoff"
- □ Fed Governors and regional Fed Presidents lowered their <u>median forecast</u> for GDP growth through 2021 to 5.9% (from 7.0%) but raised it for 2022 to 3.8% (from 3.3%), and raised their median 'core' inflation forecast for 2021 to 3.7% (from 3.0%) and for 2022 to 2.3% (from 2.1%)
 - they also raised their median forecast for the Fed funds rate in June next year to 0.3% (from 0.1%), and for June 2022 to 1.0% (from 0.6%), while their first median forecast for the funds rate in June 2024 was 1.8%
 - half of the Governors and Presidents of now expect at least one rate increase next year (and three expect two increases)
 - Powell put a 'dovish' spin on these forecasts saying that "more important than any forecast is the fact that policy will remain accommodative until we have achieved our maximum employment and price stability goals"
- ☐ The Bank of Japan left all of its monetary policy settings on hold, as expected, at last week's monetary policy meeting
 - there was only one dissent (out of 9 members) from the decision to keep interest rates unchanged, and he wanted even lower rates
 - the BoJ also provided <u>more detail</u> of its program (foreshadowed at its previous meeting) of interest-free loans to banks which "disclose information concerning their efforts to address climate change" for on-lending to customers which "contribute to Japan's actions to address climate change"



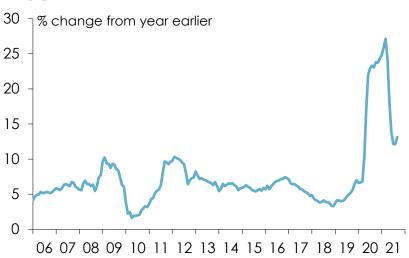
The Bank of England last week foreshadowed that it could raise rates before year-end – and would pursue a different 'policy mix' from the Fed

- □ The Bank of England's Monetary Policy Committee agreed unanimously last week to keep its Bank Rate at 0.10%, and agreed by a 7-2 majority to continue with its existing program of bond purchases towards the previously-stipulated target of £875mn (at the previous meeting this had been by an 8-1 vote)
 - the <u>Minutes</u> of Wednesday's meeting (released the following day) note that "some developments" since the previous meeting had "strengthened the case" that "some modest tightening of monetary policy over the forecast period was likely to be necessary to be consistent with meeting the inflation target sustainably in the medium term"
 - in particular, the MPC noted the impact of "supply constraints on output" which "appeared likely [to] prove more persistent" and which had prompted BoE staff to revised down their forecast for the level of Q3 GDP by around 1% and to raise their forecast for CPI inflation to "slightly above 4% in 2021 Q4"
 - also contributing to the upwards revision to the inflation forecast were the prospect of higher electricity and gas prices and, more importantly, evidence that "the labour market appears to have tightened further", prompting BoE staff to raise their estimate of underlying pay growth "to above its pre-pandemic rate"
 - the MPC also noted household inflation expectations had "increased in recent months", with one medium-term measure reaching "its highest level since 2013", as had financial markets' inflation expectations
 - although the MPC judged that there was "high option value" in waiting for additional information on the labour market (and in particular the effects of the expiry of the Government's furlough scheme at the end of this month) before deciding "if and when a tightening in monetary policy might be warranted"
- ☐ The MPC unanimously agreed that "any future initial tightening of monetary policy should be implemented by an increase in [the] Bank Rate even if that became appropriate before the end of the existing ... asset purchase program"
 - this is the diametric opposite of the Fed's (and the ECB's) approach which is to begin 'tapering' well before any increase in policy interest rates



Money supply growth has slowed sharply from the peaks recorded earlier this year as large monthly increases a year ago 'wash out'

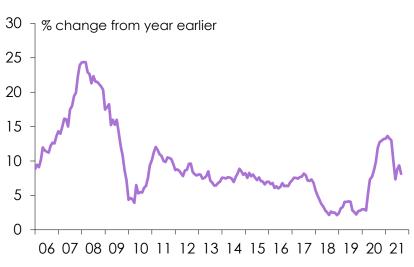
US M2



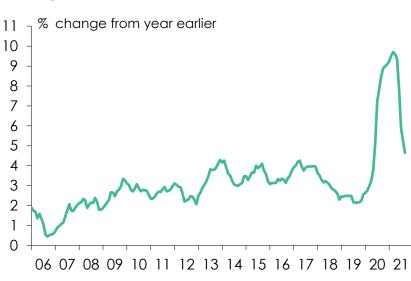
Euro area M2



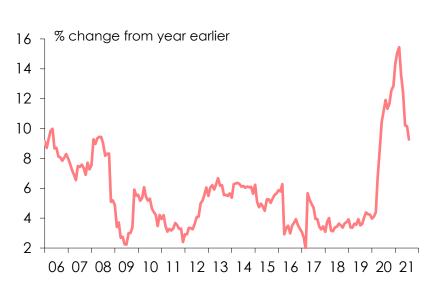
Australia M3



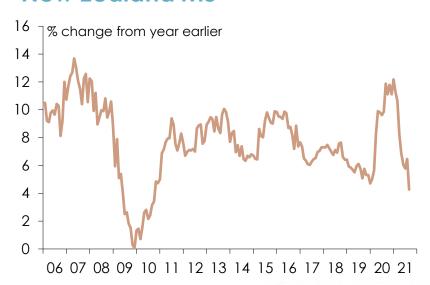
Japan M2 + CDs



UK M2



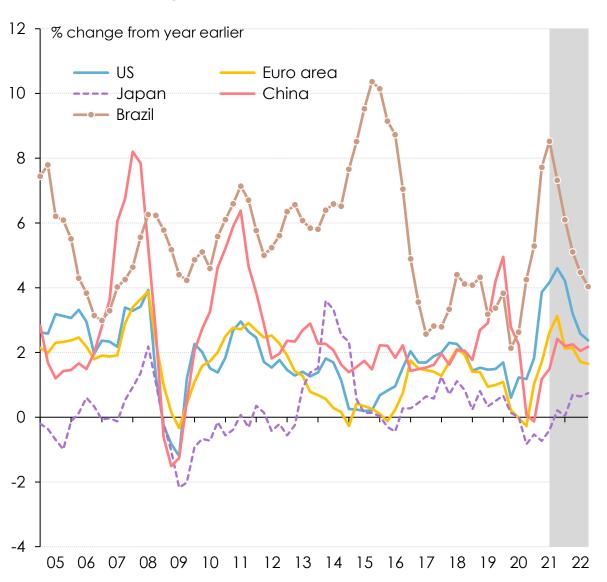
New Zealand M3



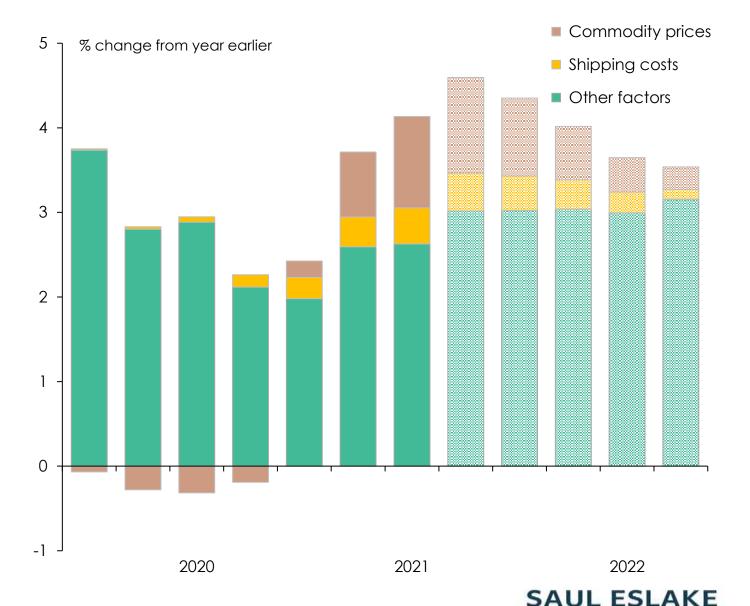


The OECD estimates that higher commodity prices and shipping costs account for three-quarters of the increase in G20 inflation so far this year

Inflation in major advanced economies



Contribution to annual G20 inflation



INDEPENDENT ECONOMICS



It's possible that 'upstream' pressures – with the important exception of natural gas – may have peaked

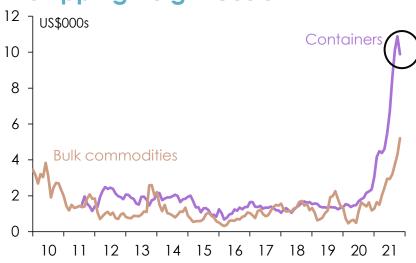
'Hard' commodity prices



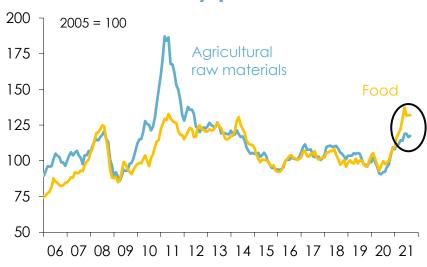
Crude oil price



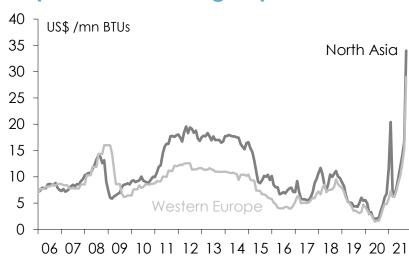
Shipping freight costs



'Soft' commodity prices



Liquefied natural gas prices



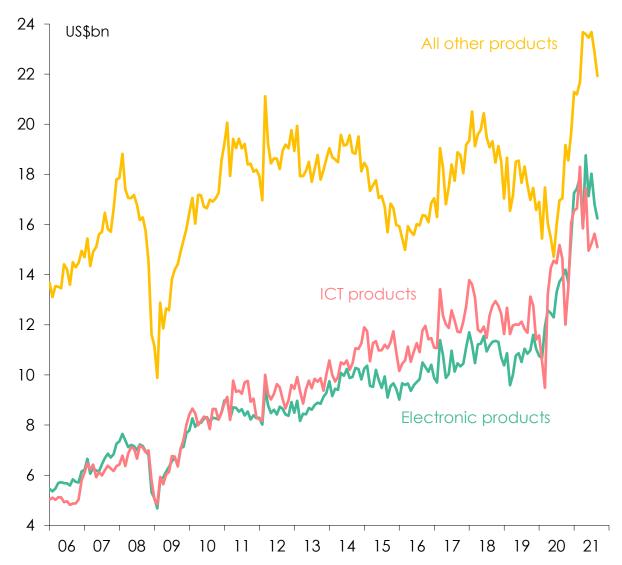
Semiconductor prices





Global semi-conductor production has been curtailed by Taiwan's drought, covid outbreaks in 5th East Asia, and damage to chip plants elsewhere

Taiwan export orders, by product

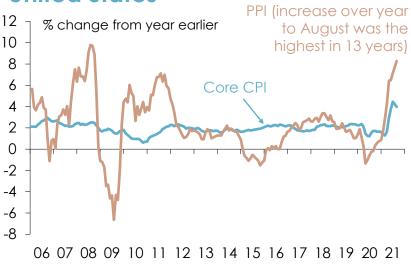


Note: Data have been seasonally adjusted by Corinna using Refinitiv Datastream. Latest data are for August. Source: Taiwan Ministry of Economic Affairs. Return to "What's New".

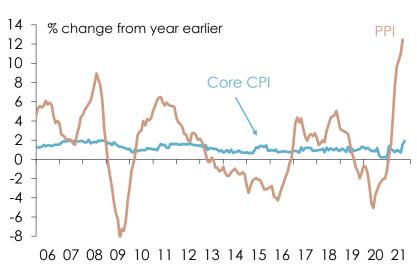
- Taiwan accounts for 63% of the US\$85bn global semi-conductor chip market (followed by Korea 18% and China 6%)
 - one Taiwanese company, Taiwan Semiconductor Manufacturing Co (TSMC) has 54% of the world market, and United Microelectronics Co (UMC) a further 7% (Samsung accounts for Korea's 18%)
- Semiconductor fabrication plants ("fabs") use very large amounts of water to rinse chips during their manufacture – a typical fab uses 7½-15 million litres of water daily (and water in Taiwan is very cheap, at less than US40¢/t)
- Taiwan had been experiencing its <u>worst drought in 56 years</u>, resulting in rationing of water supplies including to semi-conductor manufacturers
 - although recent heavy rainfalls appear to have broken the drought
- World-wide semi-conductor production has also been crimped by plant shutdowns in Vietnam, Malaysia and the Philippines due to covid-19 outbreaks, and by damage caused by a fire at a Japanese fab earlier this year and a storm at a Texas plant
- Foreign orders for Taiwanese ICT products fell by 3.5% in August, after increases of 1.9% in June and 2.6% in July, to be still 17.5% below February's peak
 - orders for other electronics products fell 3.4% in August to be more than 13% below their peak in April
- Shortages of semi-conductor chips have caused major headaches for the motor vehicle industry (which uses lots of them)
 - Toyota last month <u>announced</u> a 40% cut in production in September (although virus outbreaks in SE Asia were also a contributing factor)

Producer prices are surging in all major economies: but only in the US and (to a lesser extent) the UK is this feeding into core CPI inflation

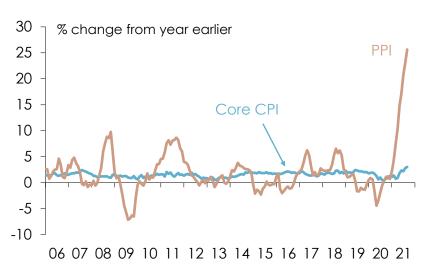
United States



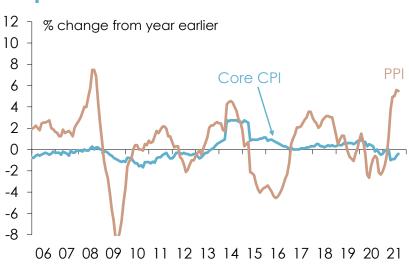
Euro area



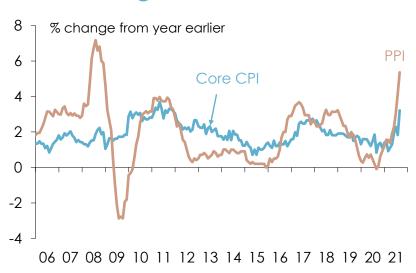
Canada



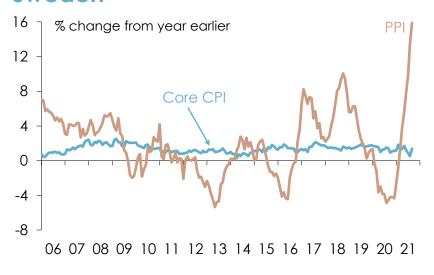
Japan



United Kingdom

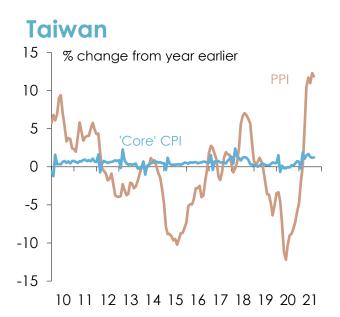


Sweden





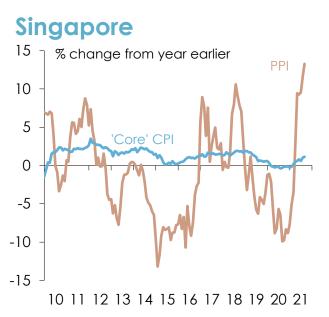
There's been very little pass-through of higher producer prices into 'core' consumer price inflation in Asia



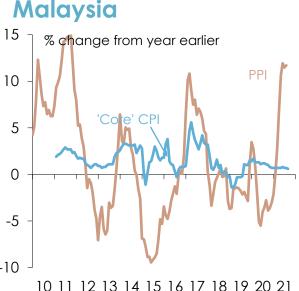








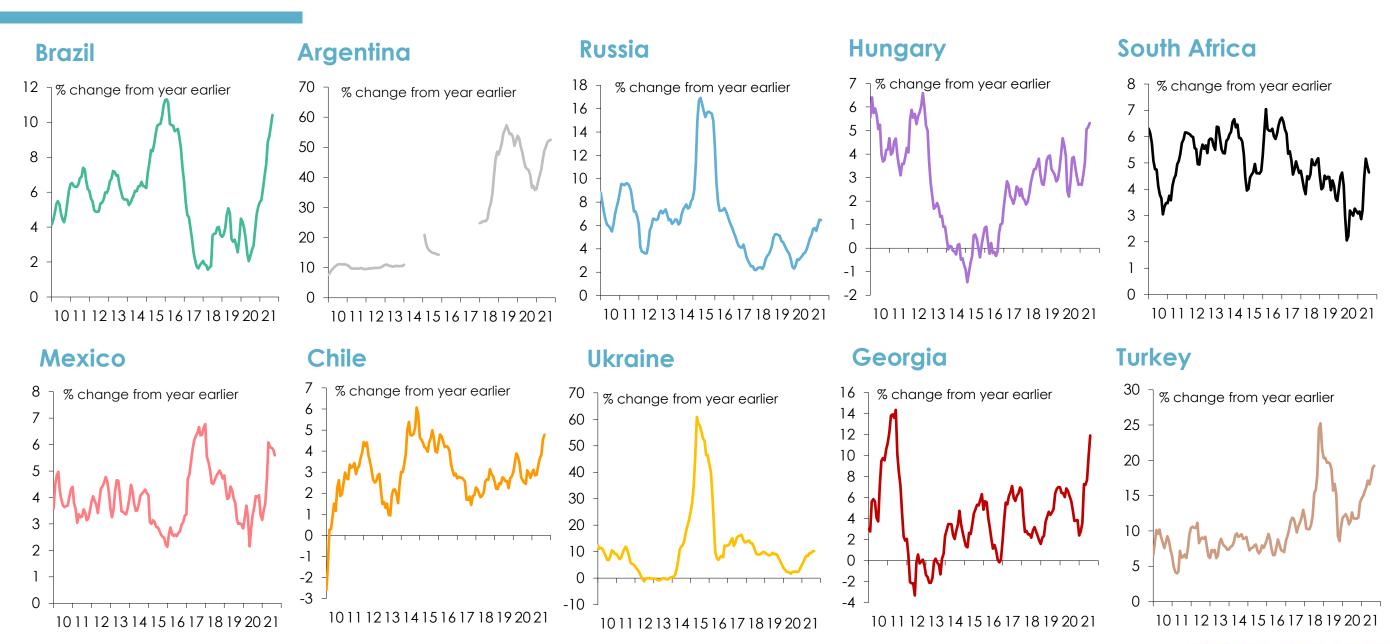




Note: 'Core' CPIs measure different things in different Asian economies – see footnotes to <u>slide 58</u>. Sources: <u>China National Bureau of Statistics</u>; <u>Statistics Korea</u>; <u>Bank of Korea</u>; <u>Taiwan Statistical Bureau</u>; <u>Singstat</u>; <u>Monetary Authority of Singapore</u>; <u>Statistics Indonesia</u>; <u>Philippine Statistics Authority</u>; <u>Thailand Bureau of Trade and Economic Indices</u>; <u>Department of Statistics Malaysia</u>. Return to "What's New".



Consumer price inflation is rising in many other 'emerging' markets



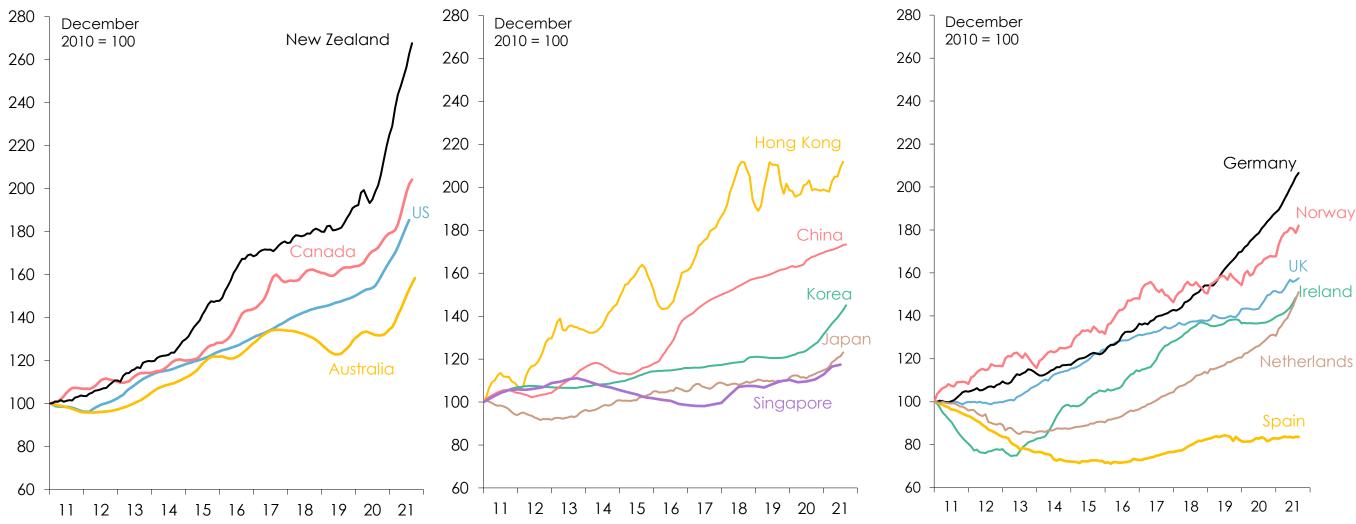
Sources: Instituto Brasileiro de Geografia e Estatística; Instituto Nacional de Estadística y Geografía (Mexico); Instituto Nacional de Estadística y Censos (Argentina); Instituto Nacional de Estadísticas (Chile); Rosstat; Ukrstat; Központi Statisztikai Hivatal (Hungary); Sak'art'velos Statistikis Erovnuli Samsakhuri (Georgia); Statistics South Africa; Turkstat.

Return to "What's New".



Residential property prices have been remarkably resilient in most countries thanks to record-low interest rates and ample supply of credit

House price indices



Note: House price indices shown in these charts are those published by <u>S&P-CoreLogic Case Shiller national</u> (United States); <u>Teranet-National Bank</u> (Canada); <u>CoreLogic</u> (Australia); <u>Real Estate Institute of New Zealand</u>; <u>China Index Academy</u>; <u>Japan Real Estate Institute</u> (Tokyo condominiums); <u>Kookmin Bank house price index</u> (Korea); <u>Centaline Centa-City Index</u> (Hong Kong); <u>Urban Redevelopment Authority</u> (Singapore); <u>Europace hauspreisindex</u> (Germany); <u>Halifax house price index</u> (UK); <u>Central Statistics Office RPPI</u> (Ireland); <u>Fotocasa real estate index</u> (Spain); <u>Statistics Netherlands</u>; <u>Eiendom Norge</u> (Norway). These indices have been chosen for their timeliness and widespread recognition: they do not necessarily all measure the same thing in the same way. For more comprehensive residential property price data see the quarterly database maintained by the Bank for International Settlements. Return to "What's New".

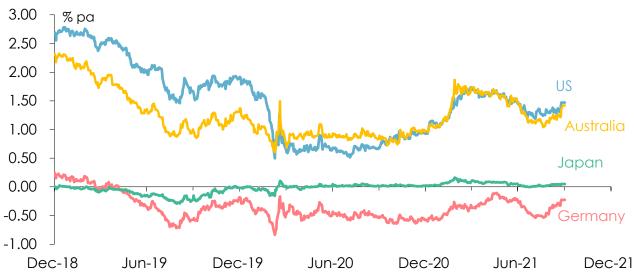


Bond yields and the US\$ continued rising for most of the week on expectations of imminent Fed tapering, prompting stocks to weaken

Stock markets



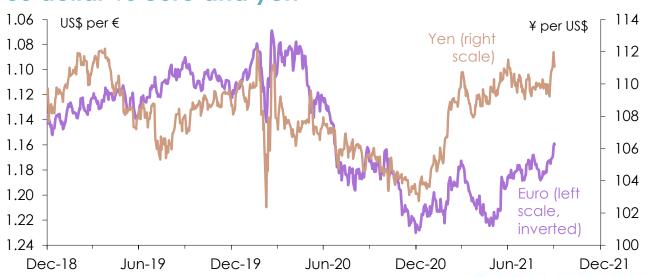
10-year bond yields



Measures of market volatility



US dollar vs euro and yen

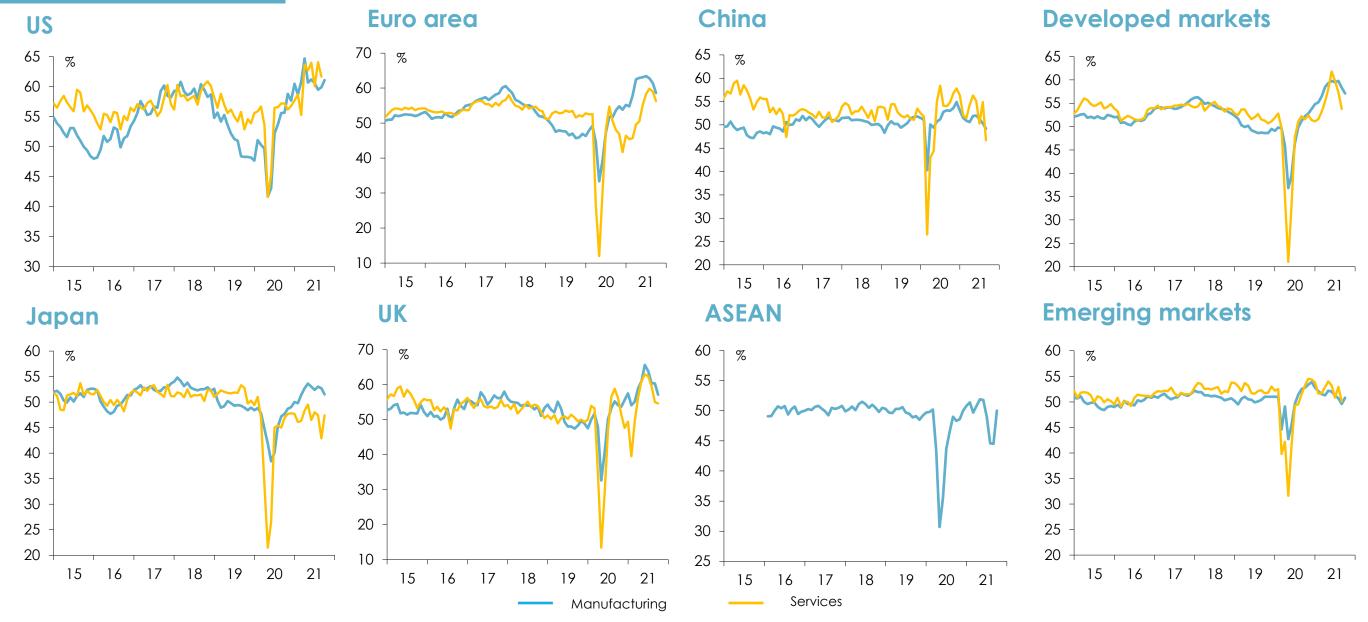


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Source: Refintiv Datastream. Data up to 1st October. Return to "What's New".

September PMIs show a mixed picture for manufacturing, picking up in the US and ASEAN but softening elsewhere

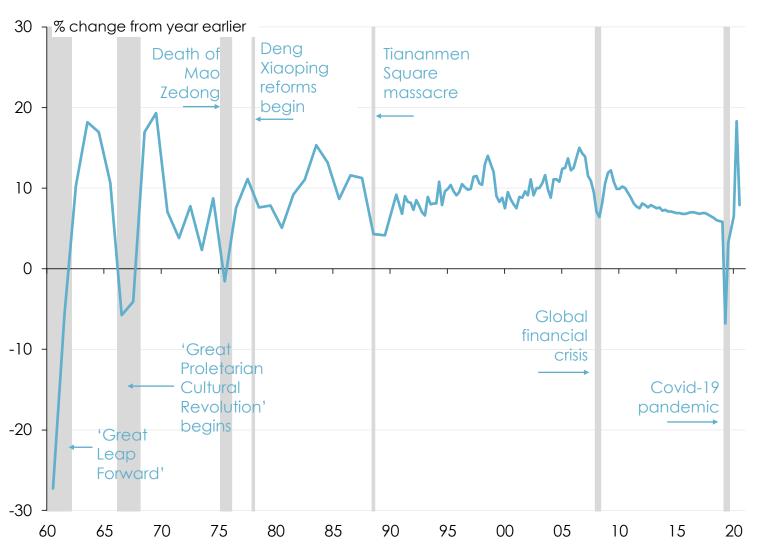


Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. A reading of 50 indicates an overall increase cf. the previous month, and a reading of less than 50 indicates a decrease. Latest data for manufacturing PMIs, and for services PMIs for Japan, the euro area and UK are September. See also PMIs for other Asia-Pacific economies on slide 57. Sources: US Institute for Supply Management; IHS Markit; JP Morgan; Caixin; Refinitiv Datastream. Return to "What's New".

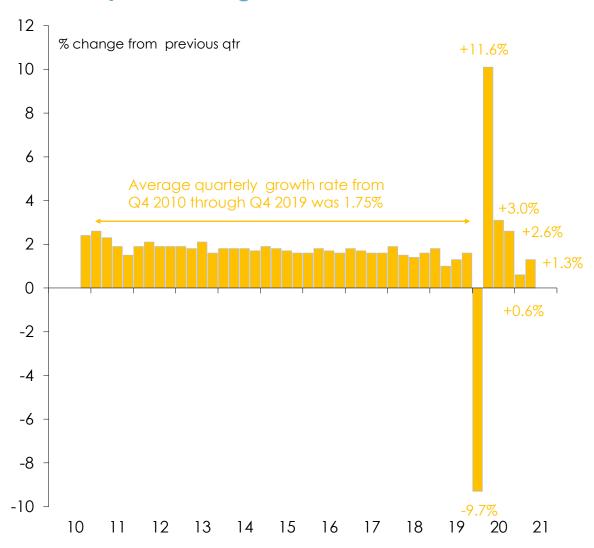


China's real GDP grew by 1.3% in Q2, double the Q1 growth rate but below the pre-pandemic pace

Real GDP growth, from year earlier, 1961-2020



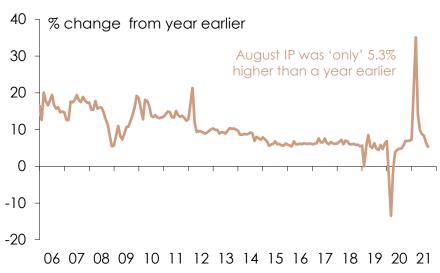
Quarterly real GDP growth, 2010-2020



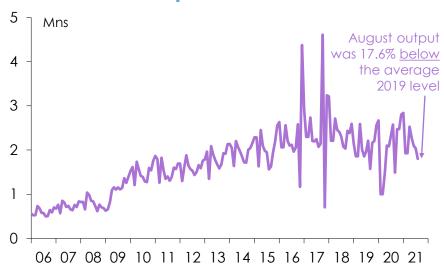


China's economy continued to slow in August, partly (but not solely) due to virus outbreaks, and notwithstanding strength in exports

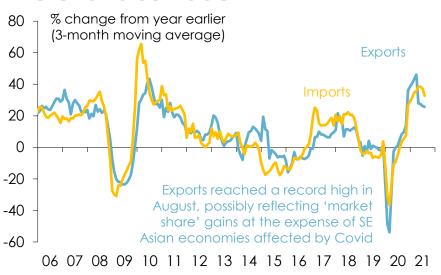
Industrial production



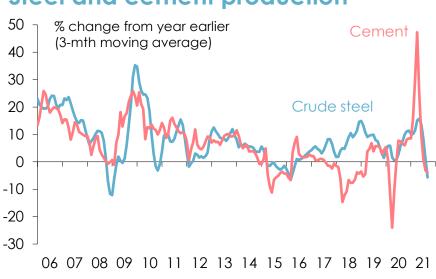
Motor vehicle production



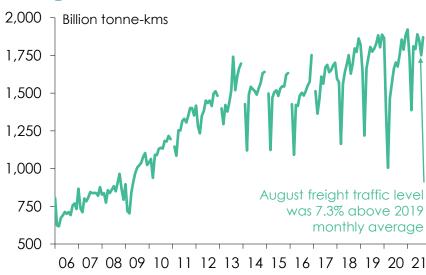
Merchandise trade



Steel and cement production



Freight traffic volumes



Merchandise trade balance



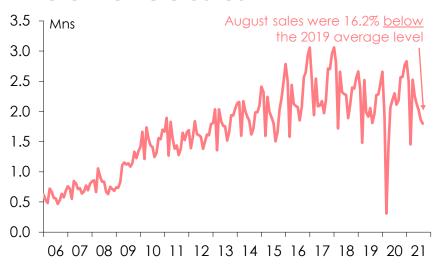


Most measures of consumer spending and of property market activity also continued to soften through August, partly but not solely due to 'delta'

Consumer sentiment



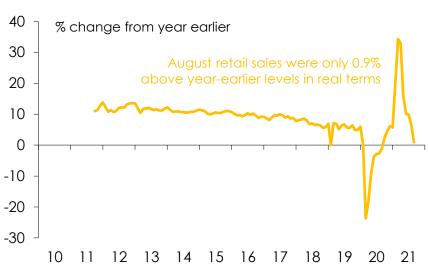
Motor vehicle sales



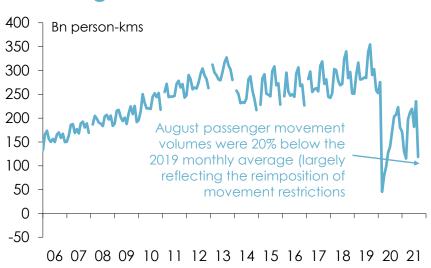
Real estate investment



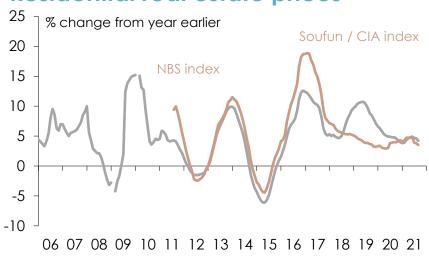
Volume of retail sales



Passenger traffic volumes



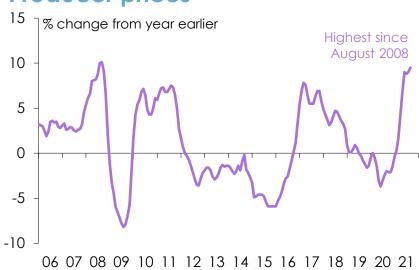
Residential real estate prices



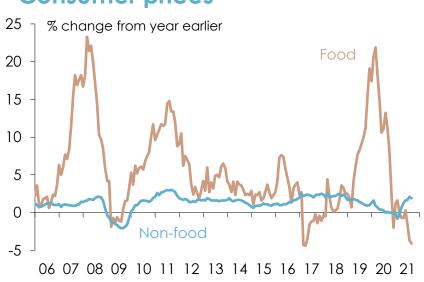


China's producer price inflation remained high in August, but consumer price inflation ebbed due to falling food prices – and credit slowed more

Producer prices



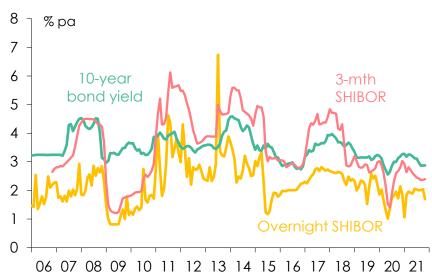
Consumer prices



PBoC policy interest rates



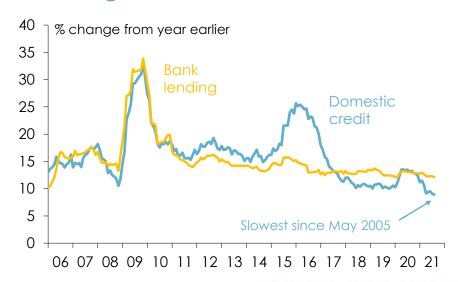
Market interest rates



Bank reserve requirement ratios



Credit growth





Concerns about the systemic consequences of a default by China's largest property developer have eased a bit, but not 'gone away'

- Concerns have been mounting for some weeks about the possibility of a default by China Evergrande Group, a property development company with debts totalling US\$300 billion (of which US\$37bn falls due within a year)
 - Evergrande is China's second-largest property developer, founded by billionaire <u>Hui Ka Yan</u> (aka Xu Jiayin, who four years ago was ranked by <u>Forbes</u> magazine as "Asia's richest man"),
 - it has around 200,000 employees, and owns more than 1,300 different projects in some 280 cities (and indirect management interests in 2,800 others) across China, as well as having interests in electric vehicle manufacturing
- ☐ A collapse of Evergrande could likely have significant consequences for the broader Chinese financial system
 - but it's not clear whether a government-sponsored 'rescue' would be consistent with the recent government emphasis on steering lending away from real estate development or with regulatory crack-downs on prominent entrepreneurs
 - however Hui is well-connected, having been a guest at the CCP centenary celebrations in Beijing on 1st July this year
 - and the Chinese authorities may be concerned about possible consequences for China's property market as well as for the financial system including local government financing vehicles (LGFVs) which have been heavily reliant on property sales
- □ Immediate concerns eased last week when Evergrande indicated it had "resolved" interest payments on an Rmb-denominated bond "via negotiations"
 - Chinese regulators <u>reportedly</u> instructed Evergrande to focus on completing unfinished properties and repaying individual investors while avoiding a near-term default on dollar bonds
 - but Evergrande missed a US\$48mn interest payment on foreign bonds this week, having also missed an \$83.5mn interest payment due on foreign bonds last week
- Additionally, the PBoC has been injecting at least Rmb 100 billion a day through reverse repo operations for the past two weeks, to ensure sufficient liquidity in domestic financial markets and stability in short-term interest rates
 - the PBoC's repo rate fell to 1.67% this week, the lowest since the beginning of this year, from around 2.2% last week, while overnight Shibor dropped almost 50 bp to 1.7%

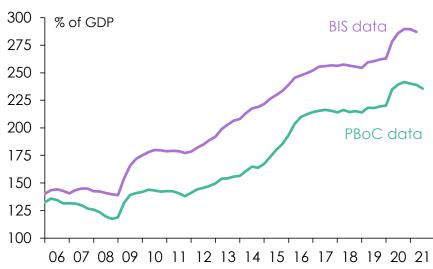
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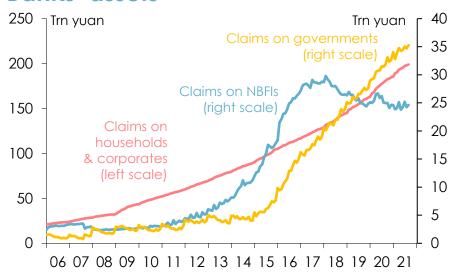
INDEPENDENT ECONOMICS

The Chinese banking system's risk profile has increased significantly over the past decade – particularly on the liabilities side of its balance sheet

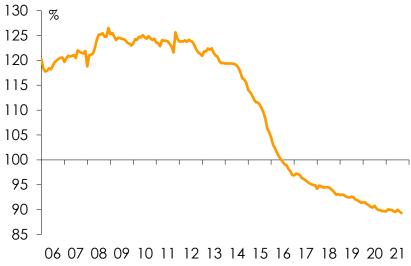
Credit outstanding as a pc of GDP



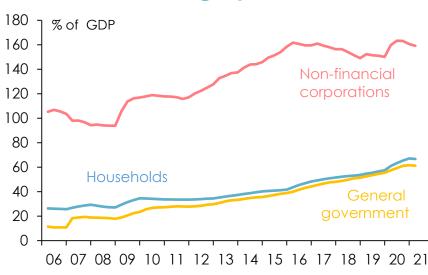
Banks' assets



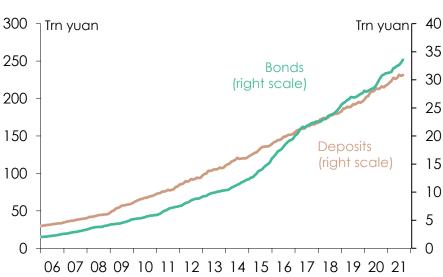
Banks' deposits-to-loans ratio



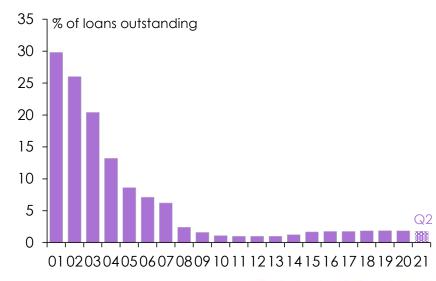
Credit outstanding by sector



Banks' liabilities



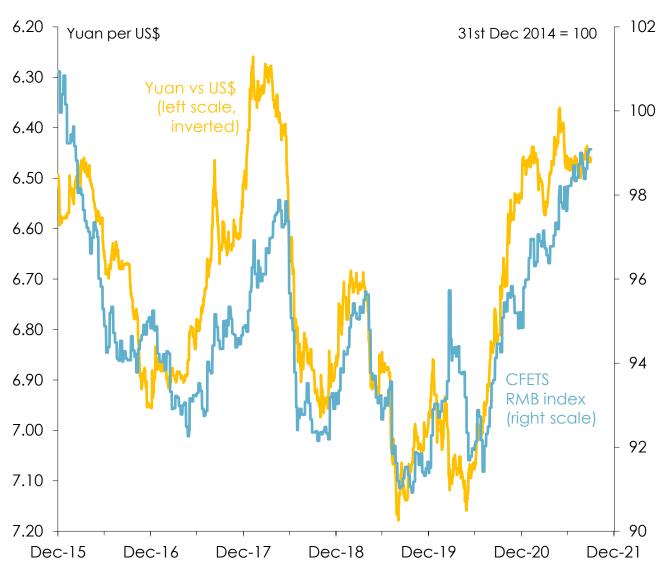
Banks NPLs – official estimates



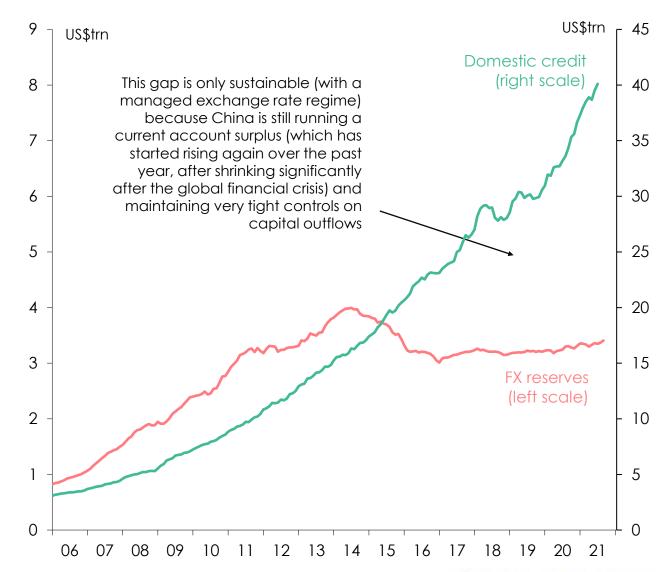


The yuan strengthened $\frac{1}{2}\%$ in trade-weighted terms this week despite slipping marginally against the US dollar

Chinese renminbi vs US\$ and trade-weighted index



FX reserves and domestic credit

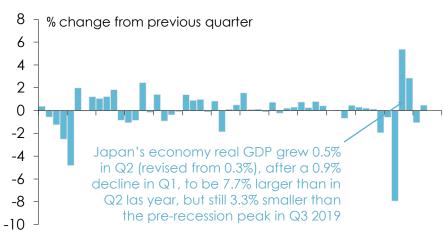




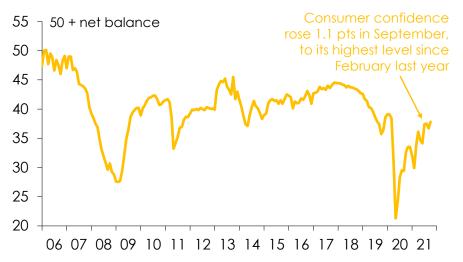


In Japan, both consumers and large businesses are becoming more optimistic, even though employment fell in August

Real GDP



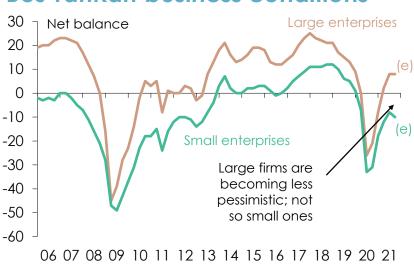
Consumer confidence



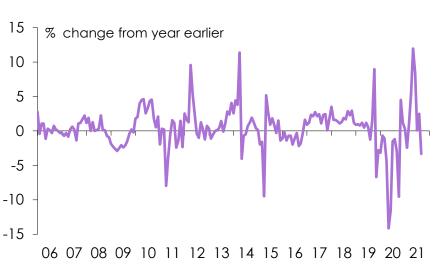
Unemployment



BoJ Tankan business conditions

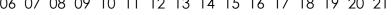


Value of retail sales



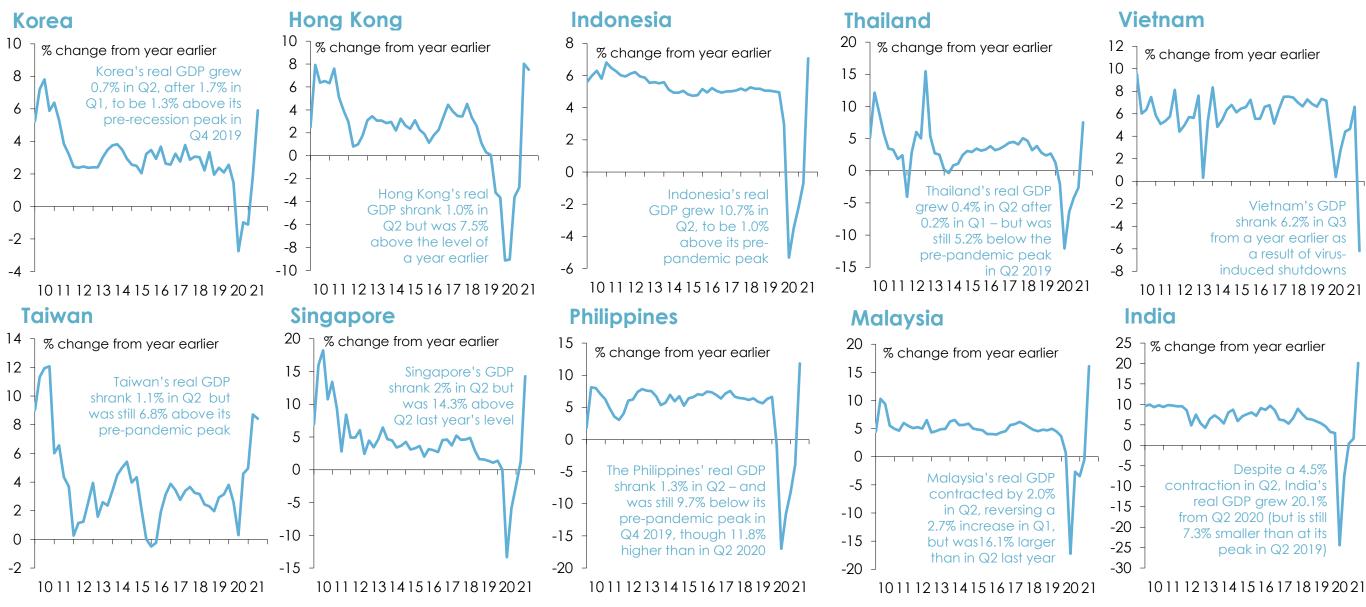
Merchandise export volumes







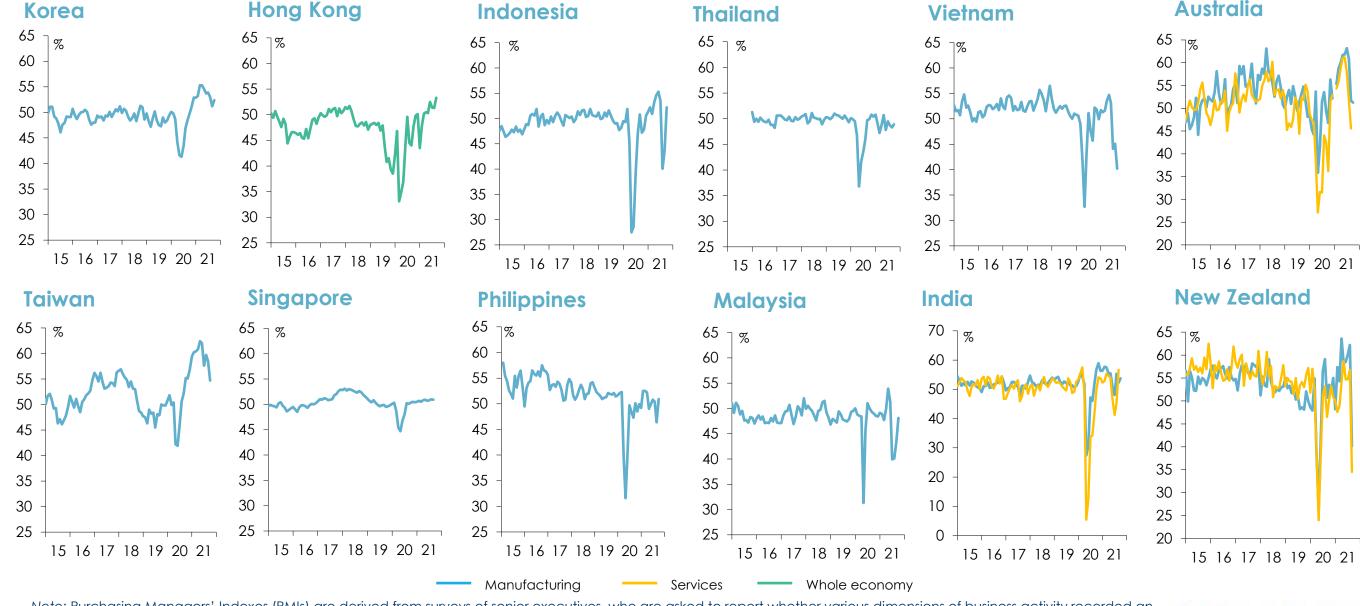
Vietnam's economy contracted by 6.2% in Q3 compared with Q3 last year, as a direct result of shutdowns in response to the spread of delta



Note: Latest data are Q2 for Korea, Singapore and Vietnam, and Q1 for other countries. Sources: Bank of Korea; Taiwan Directorate-General of Budget, Accounting & Statistics; Hong Kong Census & Statistics Department; Singapore Ministry of Trade and Industry; Department of Statistics Malaysia; Office of the National Economic & Social Development Council of Thailand; Statistics Indonesia; Philippine Statistics Authority; General Statistics Office of Viet Nam; India Ministry of Statistics & Programme Implementation. Return to "What's New".



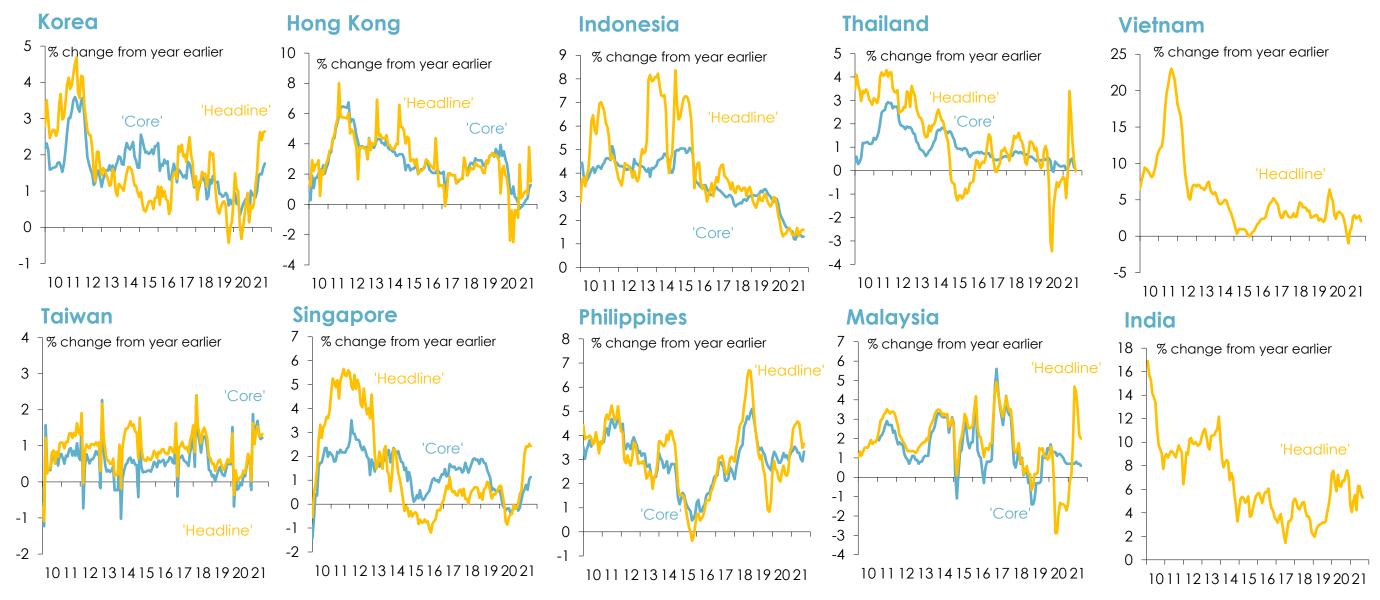
PMIs suggest a pick-up in manufacturing activity in most east Asian economies in September – with the exceptions of Taiwan and Vietnam



Note: Purchasing Managers' Indexes (PMIs) are derived from surveys of senior executives, who are asked to report whether various dimensions of business activity recorded an increase, decrease or no change compared with the previous month. A reading of 50 indicates an overall increase cf. the previous month, and a reading of less than 50 indicates a decrease. Latest data are for September, except for Hong Kong, Singapore, NZ and India services. Australian data for January are 'missing'. Sources: HIS Markit; Singapore Institute of Purchasing and Materials Management; Australian Industry Group; Business NZ; Refinitiv Datastream. Return to "What's New".



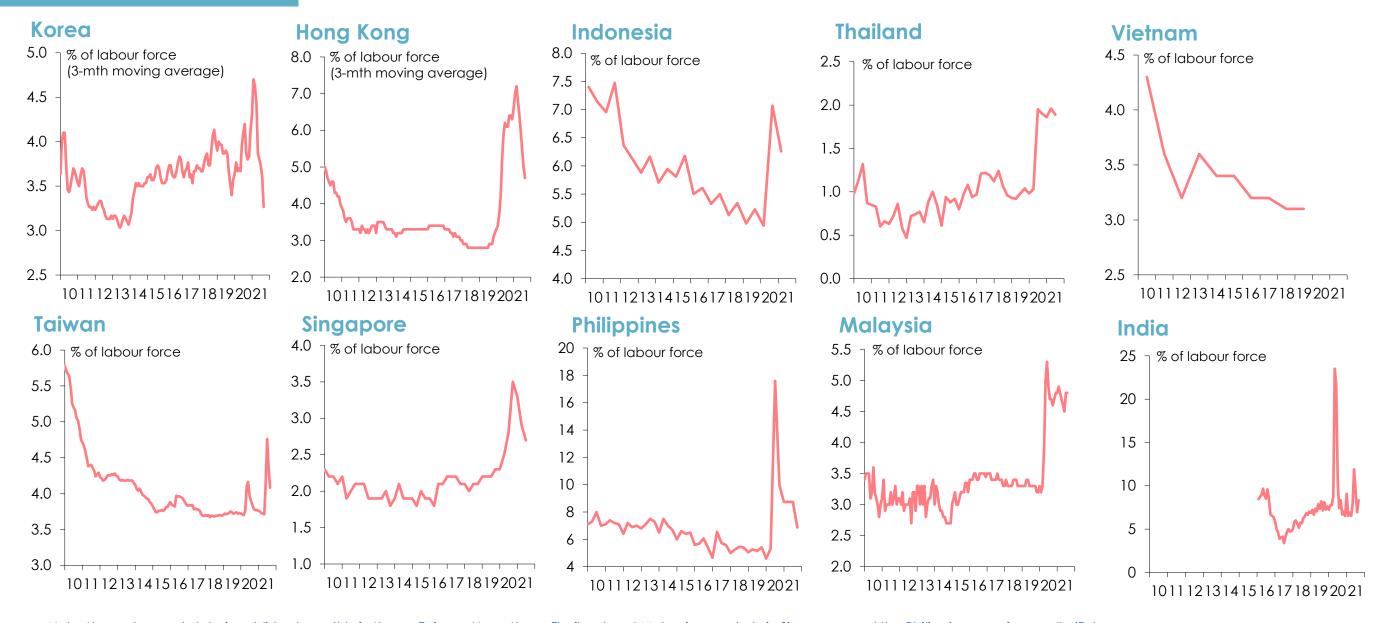
Some (though not all) Asian economies are experiencing temporary upward pressure on inflation as in North America and Europe



Note: 'Core' inflation in Korea excludes agricultural products and oil; in Taiwan it excludes fresh fruit, vegetables and energy; in Singapore it excludes accommodation and private transport; and in Hong Kong it excludes the effect of 'one-off government relief measures. 'Core' inflation in Indonesia excludes 'volatile foods' and changes in 'administered prices' (such as fuel subsidies, transport fares and electricity prices); in the Philippines it excludes rice, corn, meat, fish, cultivated vegetables and fuels; in Thailand it excludes fresh or raw food and energy; and in Malaysia it excludes fresh food and 'administered' prices. Vietnam and India do not publish measures of 'core' inflation. Sources: national statistical agencies and central banks. Return to "What's New".



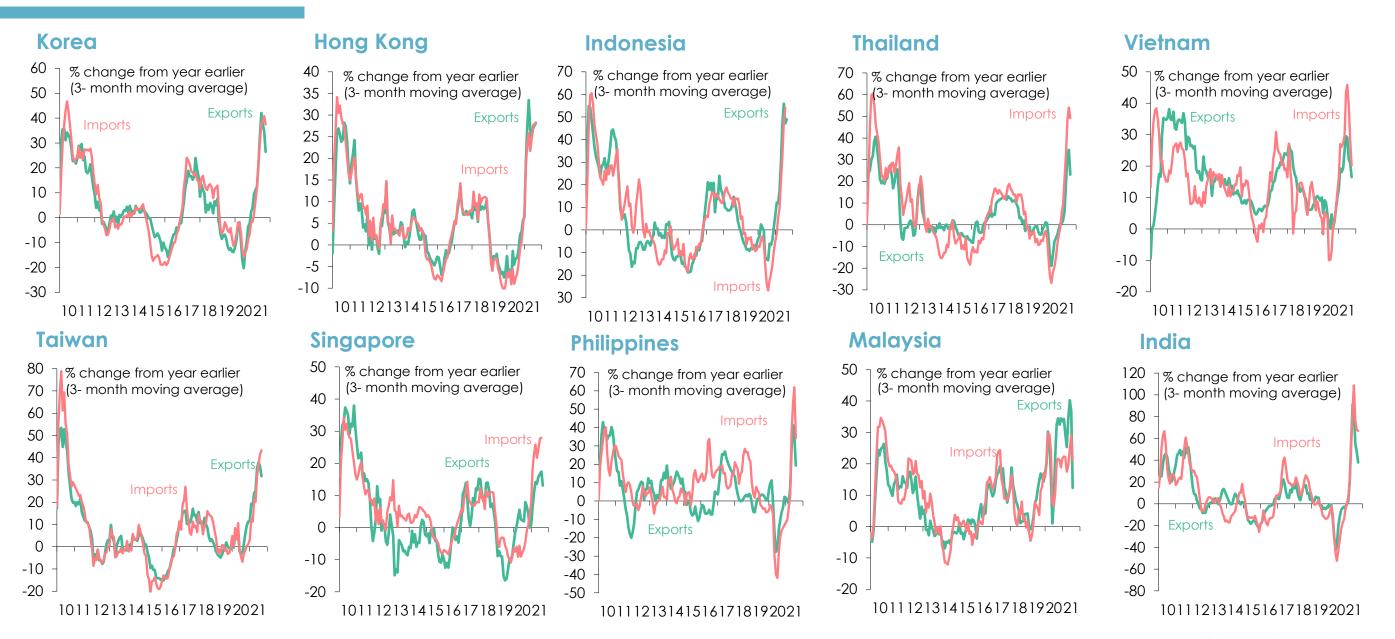
Unemployment rose sharply in most Asian economies last but is now falling in most of them



Note: Unemployment data is published monthly in Korea, Taiwan, Hong Kong, Thailand and Malaysia; quarterly in Singapore and the Philippines; semi-annually (February and August) in Indonesia; and annually in Vietnam (with the latest reading being for 2019). There is no official unemployment data in India: the estimates shown on this page are compiled by a private sector 'think tank'. Sources: national statistical agencies; Centre for Monitoring the Indian Economy. Return to "What's New".



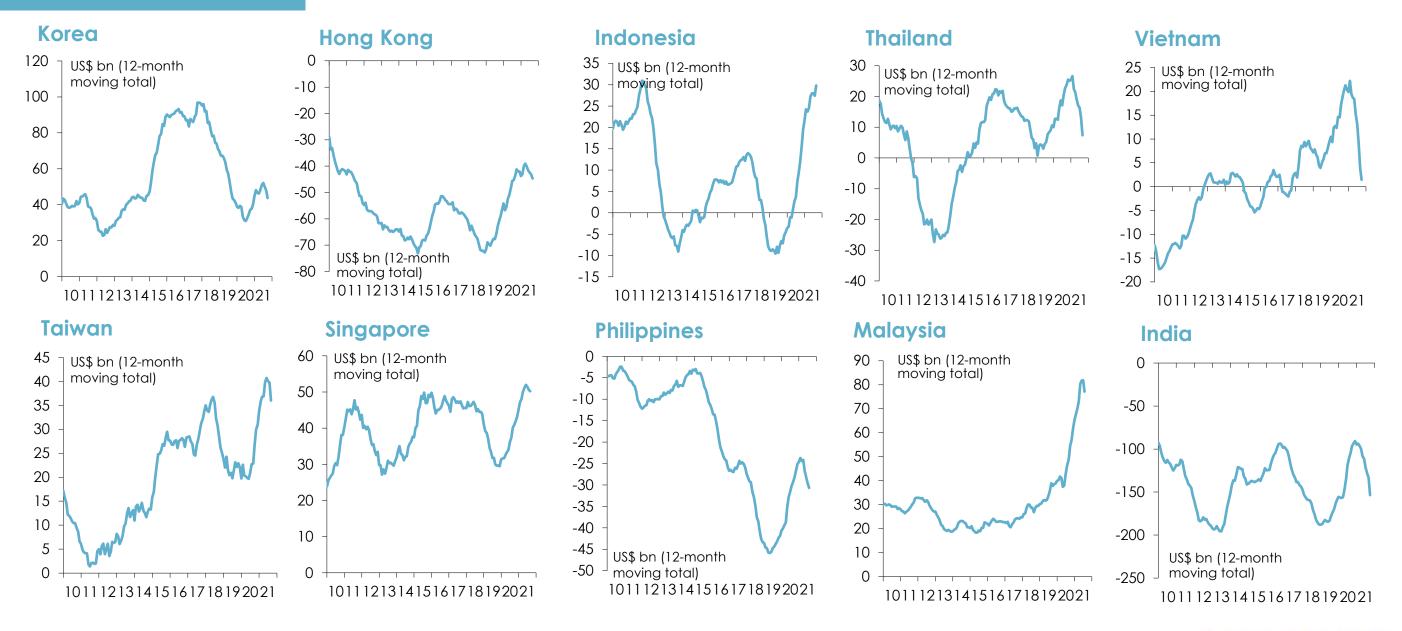
Asian exports are recovering from the Covid-induced slump – although 'base effects' from this time last year are inflating the growth



Note: Data for Hong Kong, Singapore and Malaysia are published in national currencies and converted to US dollars by Corinna using month-average exchange rates. Sources: national statistical agencies and central banks. Return to "What's New".



All Asian economies have experienced improvements in their trade balances since the onset of Covid, although some are now turning around

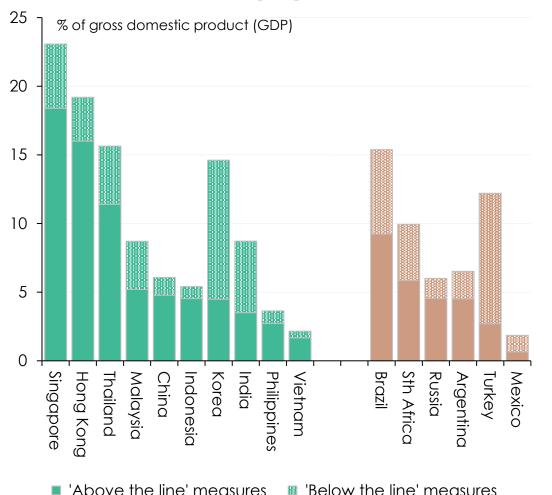


Note: Data for Hong Kong, Singapore and Malaysia are published in national currencies and converted to US dollars by Corinna using month-average exchange rates. Sources: national statistical agencies and central banks. Return to "What's New".

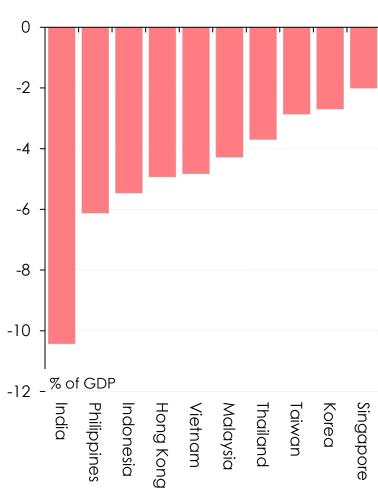


Apart from Singapore, Hong Kong and Thailand, Asian governments' discretionary fiscal responses to Covid-19 have been relatively modest

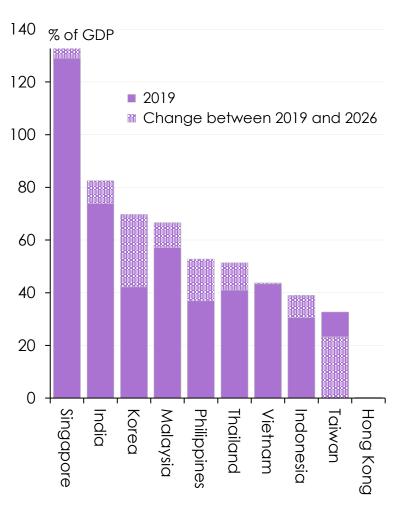
Fiscal policy responses to Covid-19 – Asian & other selected emerging market economies



Budget balances – Asian economies 2020-2022



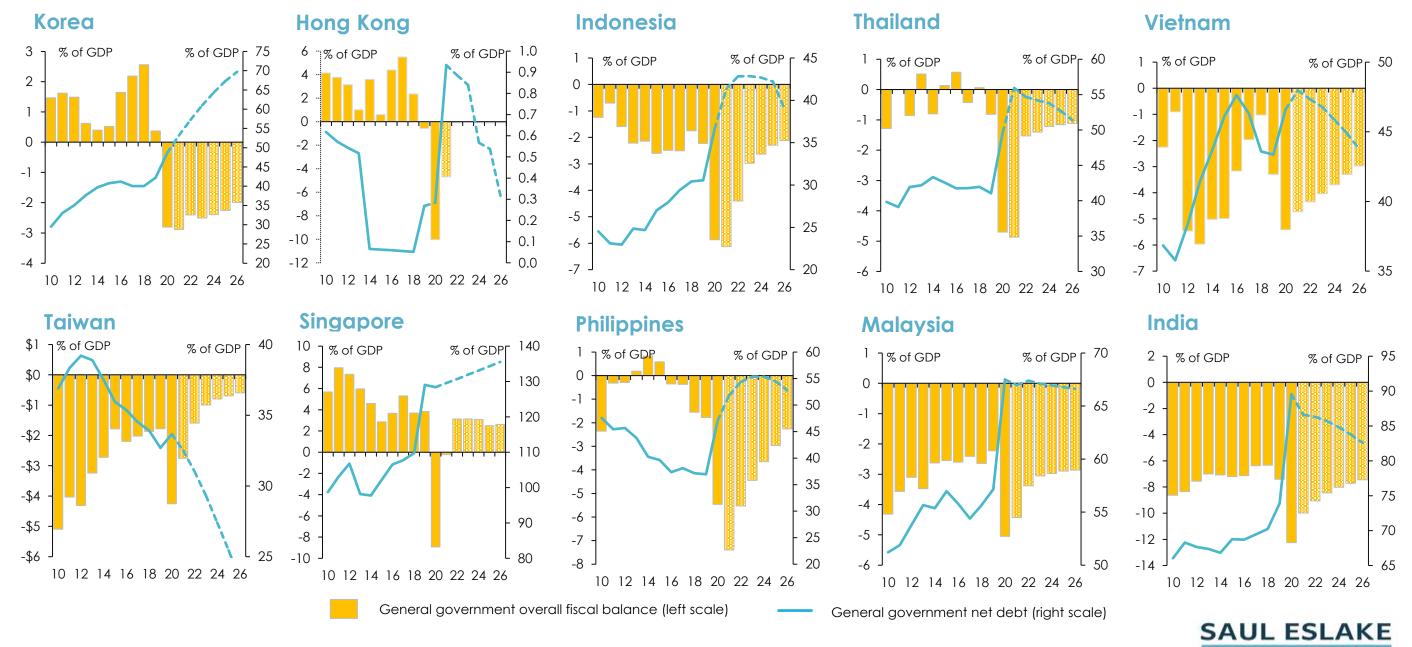
Gross government debt – Asian economies 2019-26



Note: 'Above the line' measures comprise additional or accelerated spending and deferred or foregone revenue. 'Below the line' measures comprise equity injections, loans, asset purchases and debt assumptions, but do not include loan guarantees or other contingent liabilities. 'DMs' means 'developed markets' (or 'advanced economies'). Data includes measures announced up until 5th June 2021. Singapore's apparently very large gross debt is offset by substantial financial asset holdings. Taiwan's gross debt is projected to decline as a percentage of GDP between 2019 and 2026. Sources: IMF, <u>Fiscal Monitor Database of Country Fiscal Measures in Response to the COVID-19 Pandemic</u>, July 2021; and <u>Fiscal Monitor</u>, April 2021. Return to "What's New".



Asian governments, except for Singapore and Hong Kong, will be running large budget deficits for the next five years



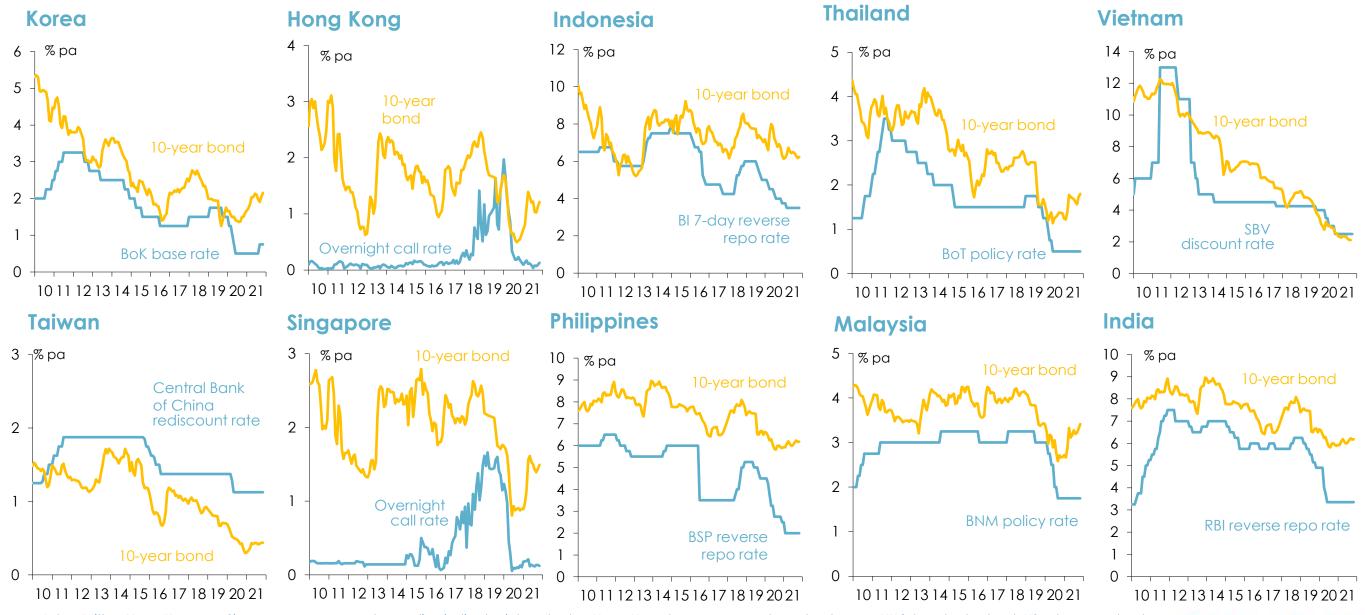
CORINNA ECONOMIC ADVISORY INDEPENDENT ECONOMICS

Except for the Bank of Korea, which raised rates for the first time in August, Asian central banks are keeping monetary policy 'on hold'

- ☐ The Bank of Thailand left its policy rate unchanged at 0.5% at Tuesday's Monetary Policy Committee meeting
 - the BoT still expects 0.7% growth in 2021, followed by 3.9% (revised from 3.7%) in 2022, but noted the outlook was "still highly uncertain"
 - in its view "government financial measures would be more effective [in supporting economic recovery] than a further reduction in the policy rate"
- □ <u>Bank Indonesia</u> left its key policy interest rates the 7day reverse repo rate, deposit facility rate, and lending facility rate unchanged at 3.50%, 2.75% and 4.25% respectively at last week's Board of Governors meeting
 - in his post-meeting <u>press statement</u> BI Governor Perry Warjiyo characterized BI's monetary policy settings as "in line with the need to maintain exchange rate and financial system stability, amid low inflation forecasts and efforts to support economic growth"
 - in particular BI is continuing with its 'synergistic monetary expansion' policy under which it purchases government bonds in the primary as well as in the secondary market (see <u>slide 67</u>)
- <u>Bangko Sentral ng Pilipinas</u> left its overnight repo rate unchanged at 2.0% (where it has been since January) at last week's Monetary Board meeting
 - the <u>post-meeting statement</u> acknowledged that inflation would "settle slightly above the upper end of the target band of 2-4% in 2021", but was "projected to settle close to the midpoint of the target range" in 2022 and 2023, moreover "inflation expectations remain firmly aligned with the baseline projection path"
 - the Monetary Board concluded that "prevailing monetary policy settings remain appropriate given the manageable inflation environment and uncertain growth outlook", but will "closely monitor evolving conditions for any threats to the inflation target"
- ☐ The Central Bank of the Republic of China (Taiwan's central bank) also left its discount rate at the record low of 1.125% at its Supervisory Board meeting last week
 - however the Bank further tightened macro-prudential controls on lending for property development
 "in order to avoid excessive credit resources flowing into the real estate market"



Apart from the Bank of Korea, no Asian central bank has yet begun tightening monetary policy (or hinted that it might do any time soon)

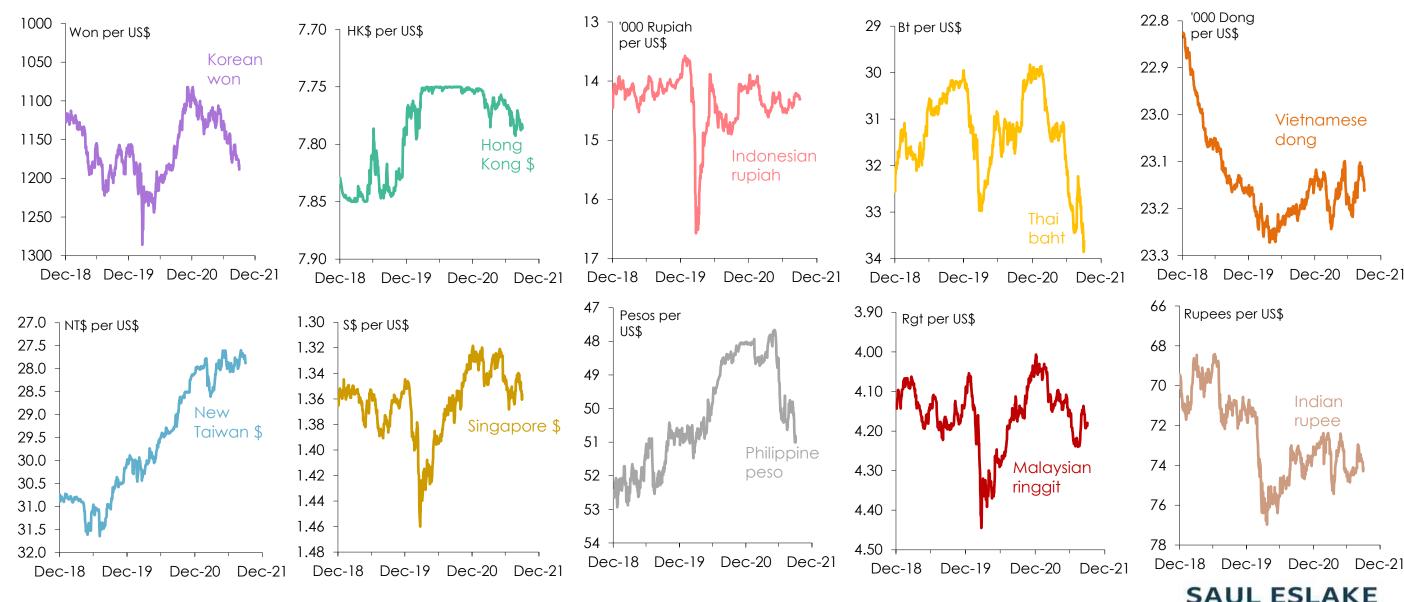


Note: Neither Hong Kong nor Singapore use a monetary policy indicator interest rate. Hong Kong has a currency board system, so HK interest rates track US rates very closely; the Monetary Authority of Singapore uses the (effective) exchange rate as its principal monetary policy instrument. Data are monthly averages up October 2021. Sources: national central banks; Refinitiv Datastream, Return to "What's New".



Asian currencies fell further against a stronger US dollar this week, with the Korean won and Thai baht both down more than 1%

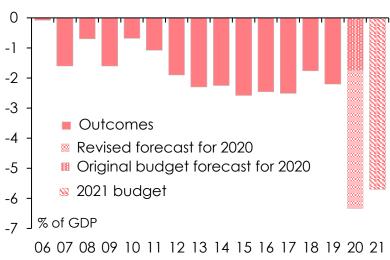
Asian currency exchange rates vs US dollar



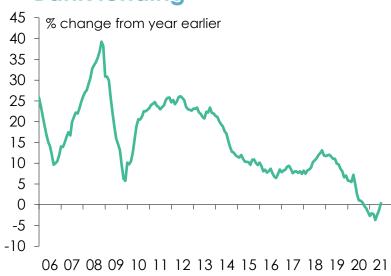
CORINNA ECONOMIC ADVISORY INDEPENDENT ECONOMICS

Bank Indonesia's monetary policy settings have been on hold since January although it has continued with its 'synergistic monetary expansion'

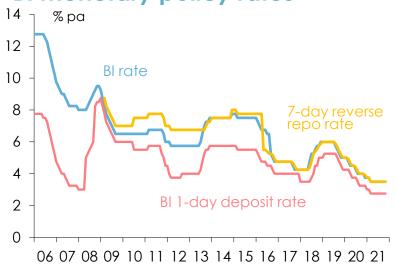
Indonesia budget deficit



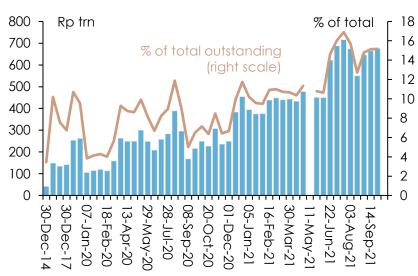
Bank lending



BI monetary policy rates



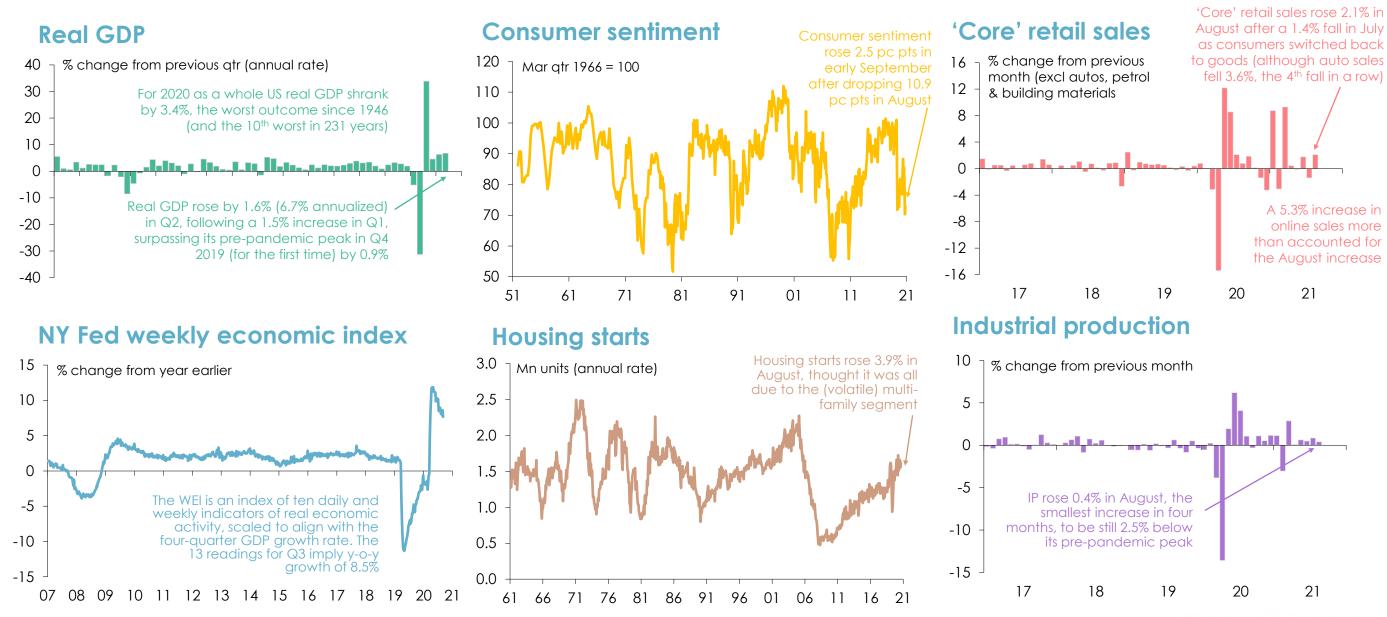
BI holdings of tradeable SBNs



- In April 2020, the Indonesian Government and Bank Indonesia (BI) agreed to a 'burden-sharing' scheme under which BI will directly purchase bonds equivalent to 25% of this year's budget financing requirement (and return the interest received to the Government), as well as subsidizing interest payments on other bonds
 - BI calls this <u>'synergistic monetary expansion'</u>
 - up to 17th September BI has purchased Rp 140trn of SBN in the primary market (cf. Rp 473trn in 2020)
 - BI has indicated that it will be a 'standby buyer' for up to one-quarter of government borrowing requirements through 2022
- □ BI's holdings of SBNs have risen by Rp125bn over the past four weeks, reversing most of the Rp166bn decline over the previous four weeks
 - BI has absorbed 38% of the increase in the total stock of SBNs outstanding so far this year, cf. just 17% in 2020
- This 'QE' isn't adding to inflationary pressure because lending to the private sector is declining
 - 'core' inflation at 1.3% in September is well below BI's target of 2-4% (<u>slide 58</u>) and BI expects it to remain within target in 2021 and 2022
- □ BI again left its policy settings unchanged at last month's Governing Council meeting (slide 64)

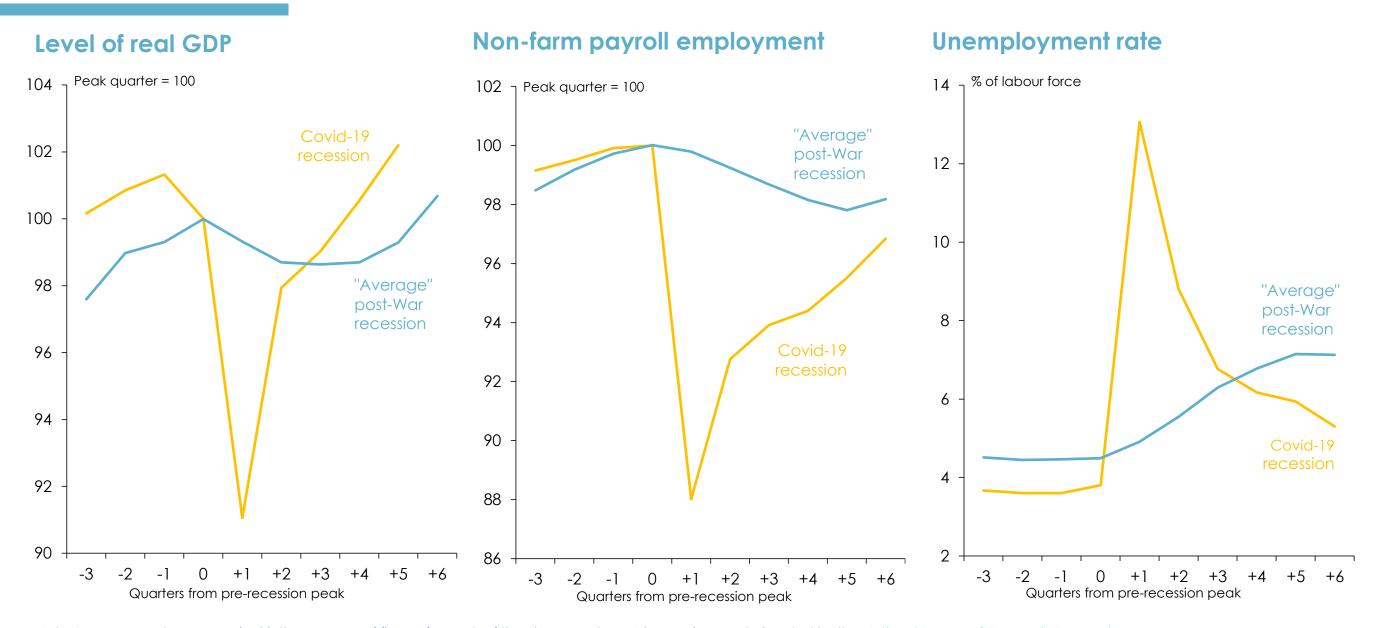
Sources: Indonesia Ministry of Finance (Kementarian Keuangan); Directorate of Government Debt Securities; Bank Indonesia. Return to "What's New".

US 'core' retail sales rebounded in August as consumers switched back from services to goods (apart from supply-constrained motor vehicles)





The Covid-19 recession has been quite unlike any other of the recessions the US has experienced since the end of World War II

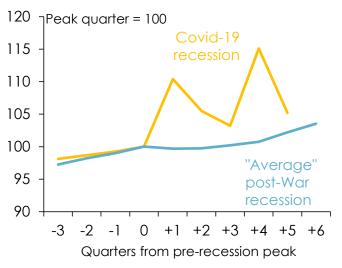


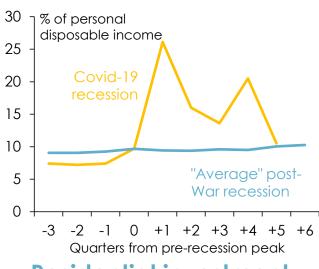
Note: 'average post-war recession' is the average of figures for each of the eleven post-war US recessions as designated by the <u>National Bureau of Economic Research</u>
<u>Business Cycle Dating Committee</u>, with the exception of the recession of January-July 1980 (which was too short, and too close to the July 1981-November 1982 recession to be fully reflected in the averages shown here); 'Peak quarter' is the quarter in which real GDP attained its highest level before the onset of the recession. No recession was ever as 'smooth' as implied by the averages shown here. Sources: US <u>Bureau of Economic Analysis</u>; <u>Bureau of Labor Statistics</u>. <u>Return to "What's New"</u>.



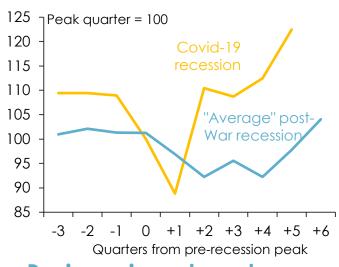
The differences between this recession and previous ones are even more apparent from some of the details in the national accounts

Personal saving rate Personal disposable income

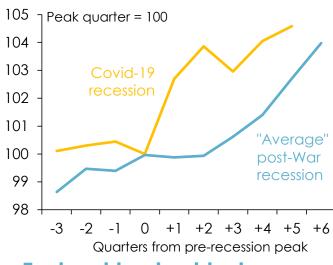




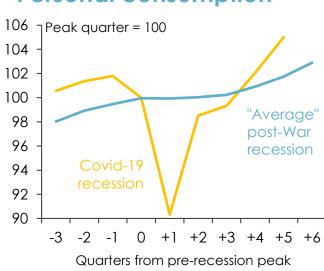
After-tax corporate profits



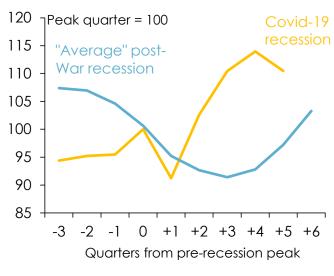
Labour productivity



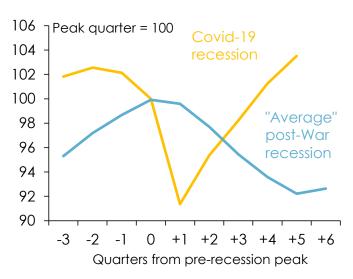
Personal consumption



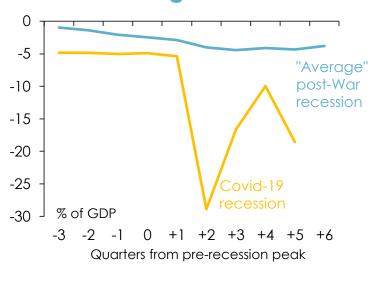
Residential investment



Business investment



Federal budget balance



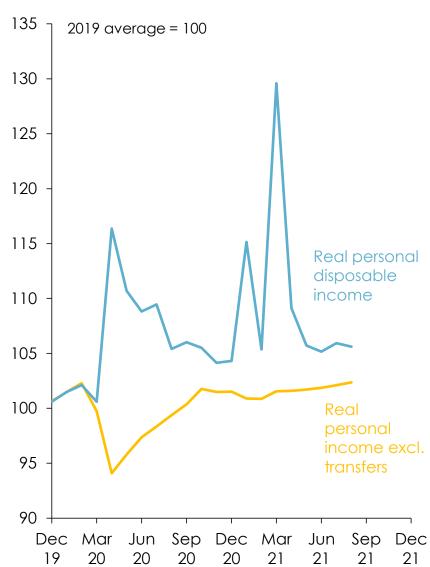
Note: 'average post-war recession' is the average of figures for each of the eleven post-war US recessions as designated by the National Bureau of Economic Research Business Cycle Dating Committee, with the exception of the recession of January-July 1980; 'peak quarter' is the quarter in which real GDP attained its highest level before the onset of the recession. All variables in the charts above are in 2012 chain volumes except for the personal saving ratio and budget deficit; after-tax profits are 'economic' rather than 'book' profits: labour productivity is for the non-farm business sector. Sources: US Bureau of Economic Analysis: Bureau of Labor Statistics. Return to "What's New".



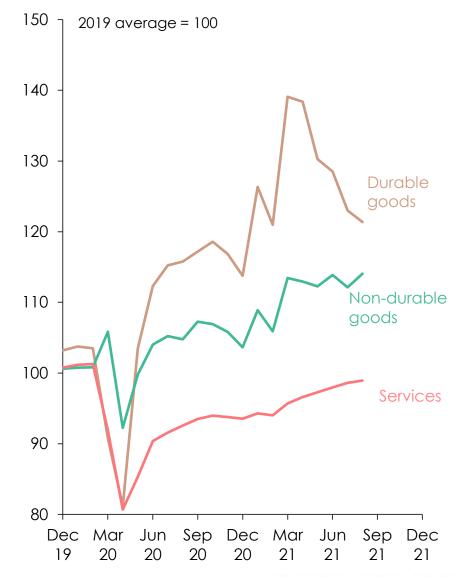
Recurring cash payments to households (combined with restrictions on movement) have had a major impact on US consumer spending patterns

Tax and transfer payments 280 2019 average = 100 260 240 220 200 180 160 Transfer payments 140 120 Personal income tax paid 100 Sep Sep Dec Dec Dec Mar 19 21 21 21

Real personal income



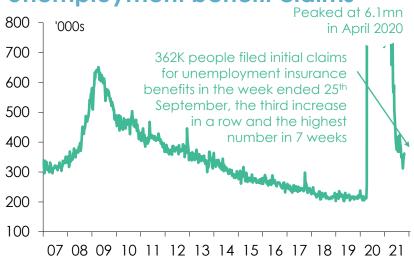
Real consumption expenditure



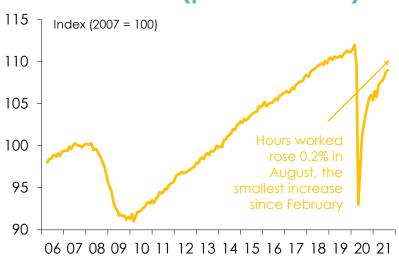


US non-farm payrolls rose 235K (0.2%) in August, to be still 5.3mn (3.5%) below their pre-pandemic peak, while unemployment dropped 0.2 pc pt

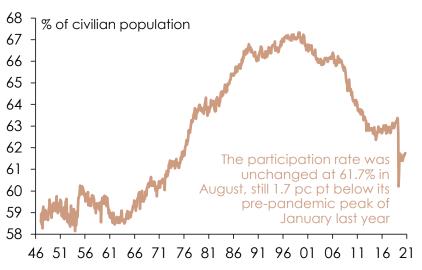
Unemployment benefit claims



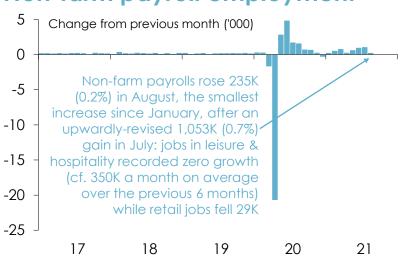
Hours worked (private sector)



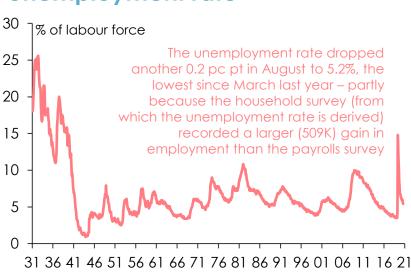
Labour force participation rate



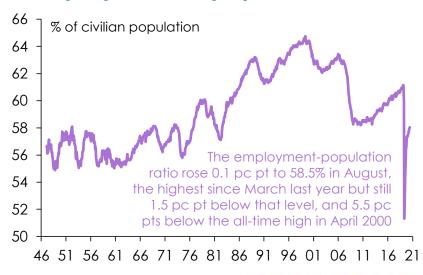
Non-farm payroll employment



Unemployment rate



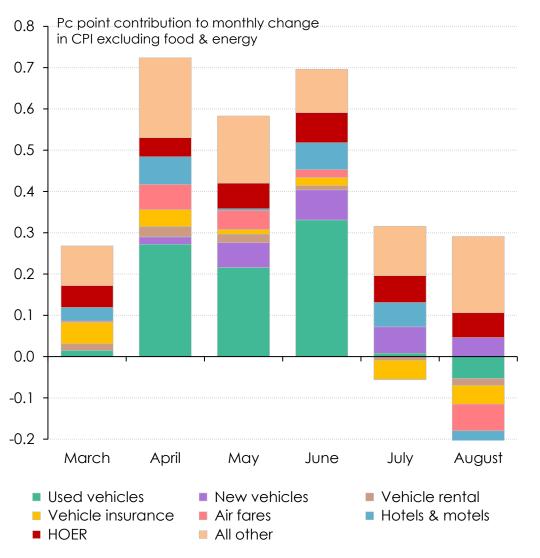
Employment to population ratio



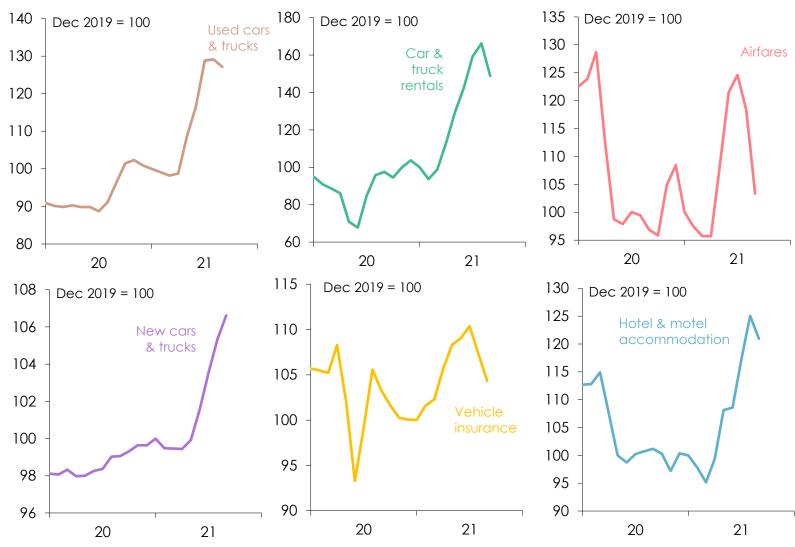


US consumer prices recorded their smallest increase since January in August with many of the contributors to the recent spike now abating

Contributions to recent monthly changes in CPI excluding food and energy



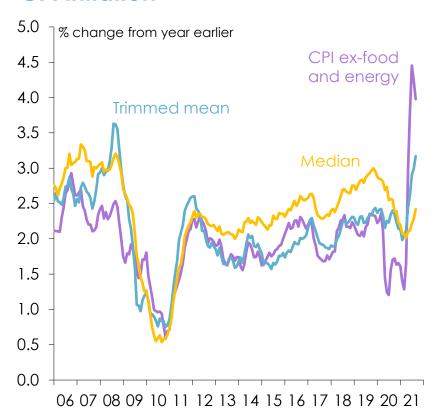
Price indices for items which have contributed most to recent monthly changes in the 'core' US CPI (rebased to December 2019 = 100)





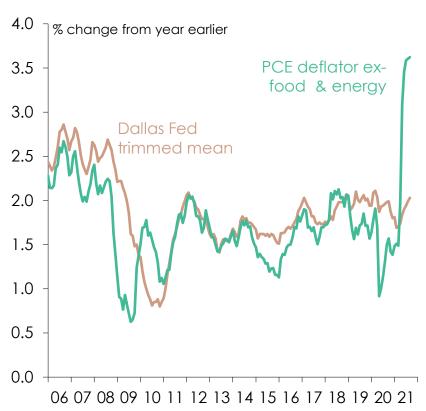
Statistical measures of 'core' inflation haven't increased very much – but longer-term inflation expectations are starting to edge upwards

Alternative measures of US 'core' CPI inflation



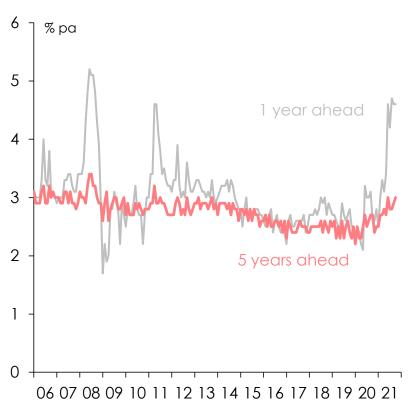
☐ Statistical measures (similar to those used by the RBA) confirm that the rise in 'core' CPI inflation is almost entirely due to 'outliers' (see previous slide)

Alternative measures of US 'core' PCE deflator inflation



☐ Likewise the trimmed mean of the PCE price deflator (the Fed's targeted inflation measure) has not increased dramatically

Household inflationary expectations



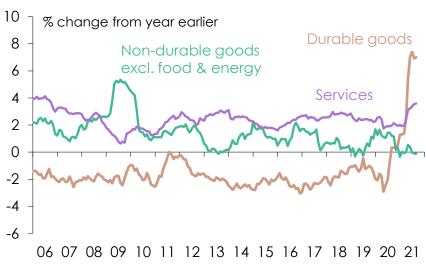
☐ Short-term household inflation expectations have risen sharply, but longer-term expectations are also creeping up

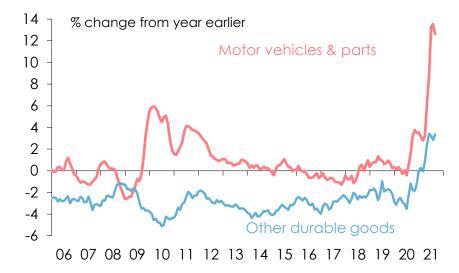
Note: The 'trimmed mean' CPI inflation rate excludes the components of the CPI whose weights fall in the top and bottom 8% of the distribution of price changes; the median is the component whose price change is in the middle of the distribution of price changes. The 'trimmed mean' of the PCE deflator excludes 24% by weight from the lower tail and 31% by weight from the upper tail of the ranked distribution of price changes. Sources: <u>US Bureau of Economic Analysis</u>; <u>Federal Reserve Bank of Cleveland</u>; <u>Federal Reserve Bank of Dallas</u>; and <u>Michigan University Survey Research Center</u>. <u>Return to "What's New"</u>.

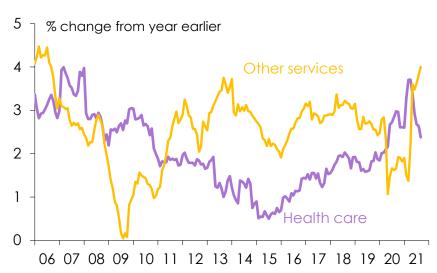


PCE price deflators highlight the significant role of durable goods in the 'disinflation' of the past 20 years and the more recent 'spike' in inflation

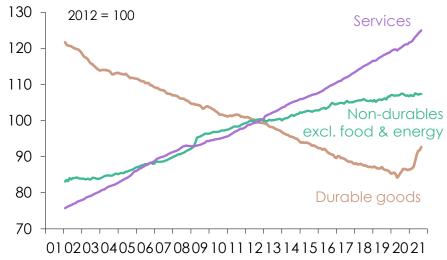
Implicit price deflators of personal consumption expenditures – per cent changes over 12-month intervals

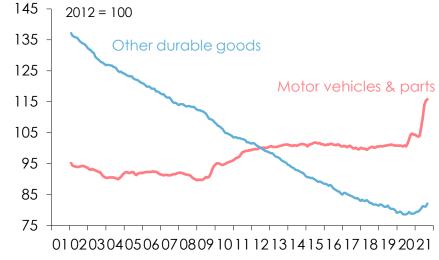


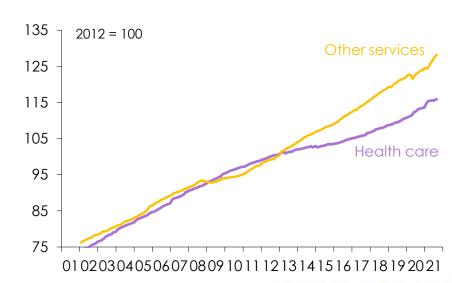




Implicit price deflators of personal consumption expenditures – levels







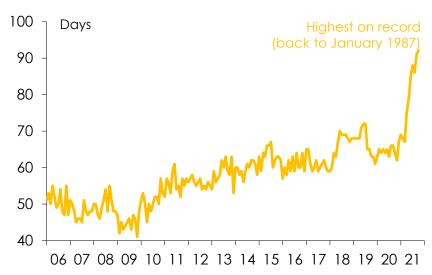


There have been some serious supply-chain difficulties in the US – particularly in the auto sector – but they may have now peaked

Manufacturers' order backlogs



Lead-time for production materials



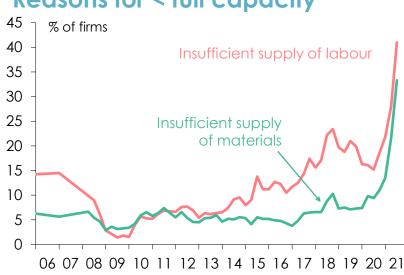
Motor vehicles & parts production



Manufacturers' customer inventories



Reasons for < full capacity



Auto industry capacity utilization

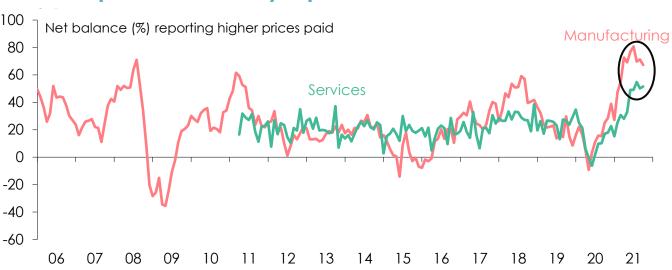


Note: The diffusion index of order backlogs is 50 plus the percentage of respondents reporting longer backlogs minus the percentage reporting shorter backlogs (and similarly for customer inventories). 'Reasons for < full capacity' means reasons for operating at less than full capacity. Sources: Institute for Supply Management, Report on Business; US Census Bureau, Quarterly Survey of Plant Capacity Utilization; Board of Governors of the Federal Reserve System, Industrial Production and Capacity Utilization - G17.
'Return to "What's New".

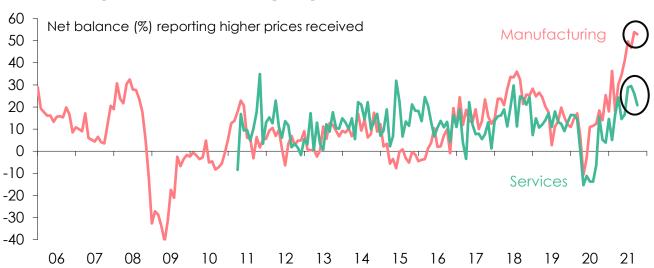


Survey measures also suggest that 'upstream' price pressures in the US may be peaking – and import price inflation could also be easing

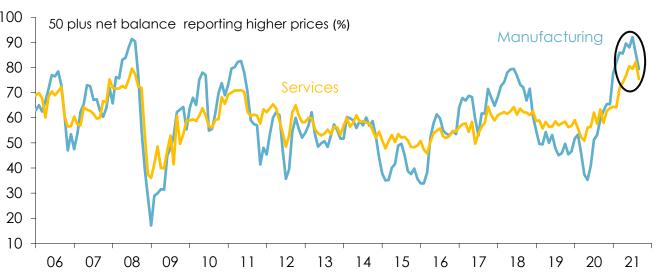
Philadelphia Fed survey – prices



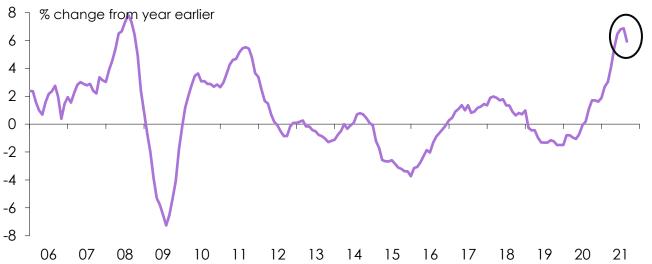
'Philadelphia Fed survey – prices received



ISM survey - prices paid



Import prices (excluding petroleum)



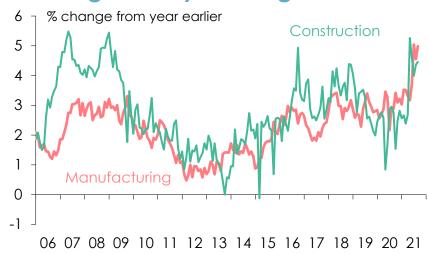


The US labour market appears to be tightening, and wages are rising in some sectors – but it's not clear how broadly-based this will become

Job openings



Average hourly earnings



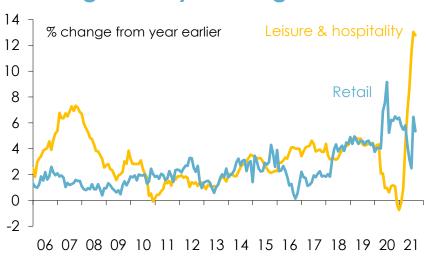
Overall wages growth - monthly



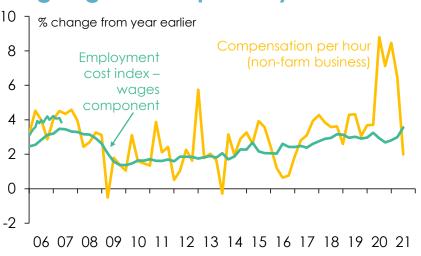
Quit rate



Average hourly earnings



Wages growth - quarterly

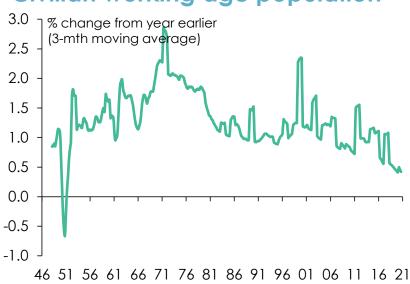


Note: Measures of average hourly earnings (especially the all-industries measures) and of average compensation per hour are affected by changes in the composition of employment (so for example they rose sharply in Q2 2020 when large numbers of low-paid workers were laid off and fell markedly when they returned to work) whereas the Atlanta Fed 'wage growth tracker' (which tracks the wage growth of individuals) and the wages component of the ECI (which is very similar to the ABS' Wage Price Index) are not. Sources: US Bureau of Labor Statistics, <u>Job Openings and Labor Turnover Survey</u>, <u>Current Employment Statistics</u>, <u>Employment Cost Trends</u> and <u>Labor Productivity and Costs</u>. 'Return to "What's New".

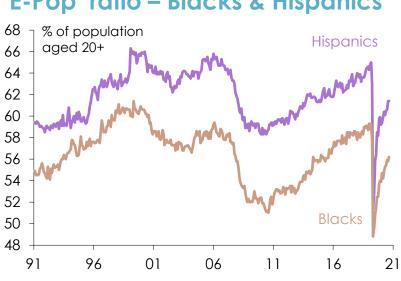


US labour market tightness owes a lot to restrictions on immigration, and to barriers to the return to the labour market of specific groups

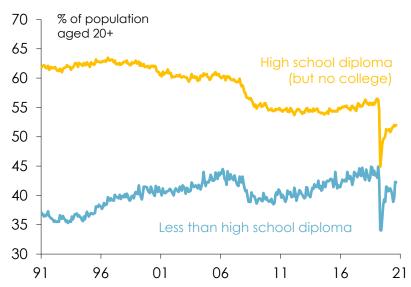
Civilian working age population



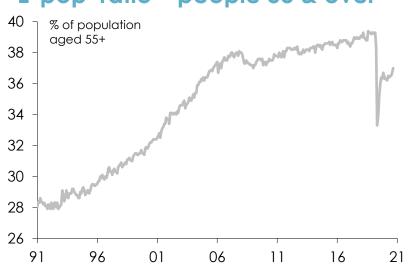
'E-Pop' ratio – Blacks & Hispanics



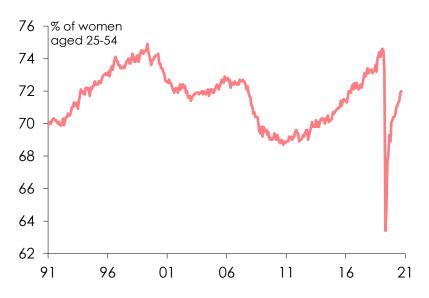
'E-pop' ratio – by education



'E-pop' ratio – people 55 & over



'E-pop' ratio – women 25-54



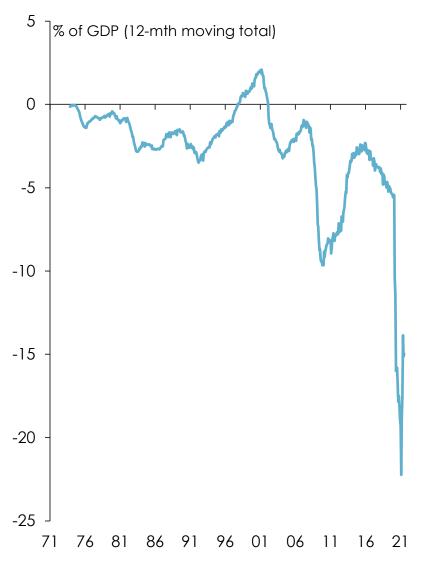
Change from Jan-Feb 2020 to Apr-May 2021 (pc of population)

Group	Not in the labor force	Not in the labor force and caregiving
All individuals aged 16 and older	1.7	J
Women aged 25 to 54 without children	1.8	1.0
Mothers aged 25 to 54 with only children aged 5 and younger	1.4	1.4
Mothers aged 25 to 54 with children aged 6 to 17	2,6	2.6
White	2.7	2.5
Black or African American	2.8	3.6
Asian	2.3	1.3
Hispanic or Latino	5.0	4.0
Fathers aged 25 to 54 with children aged 6 to 17	.7	.6

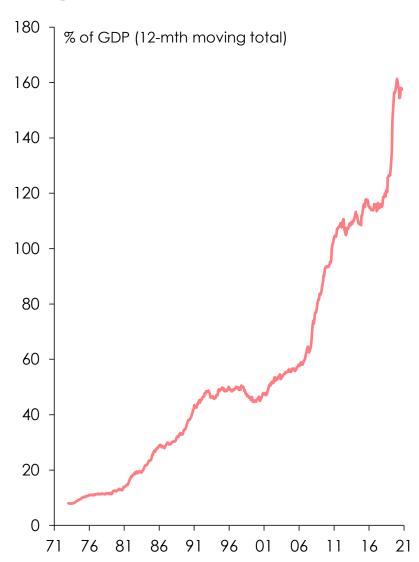


The US budget deficit has probably passed its peak, but new stimulus measures will ensure it stays large for some years yet to come

US Federal budget deficit



US gross Federal debt



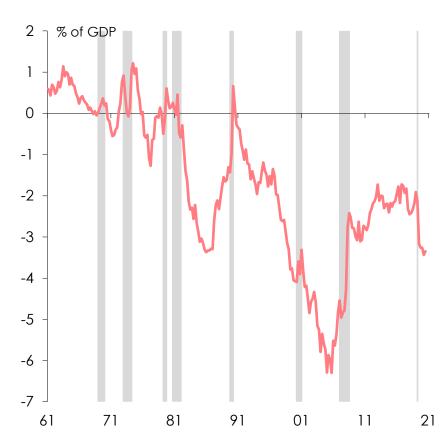
- The US Federal Government budget deficit narrowed by US\$132bn to \$171bn in August, largely due to lower spending on pandemic-related relief programs
- The deficit for the 12 months ended August was US\$2.8 trn, down from a peak of \$4.1 trn in the 12 months ended March, but almost exactly the same as in the 12 months to August last year
- The market value of gross debt outstanding fell by \$122bn to \$29.8 trn (157½% of GDP) in August, as a result of rising bond yields
- The US may be facing another stand-off over the debt ceiling which was suspended for two years in mid-2019 but which became binding again on 1st August
- Treasury Secretary Janet Yellen has indicated that the US Government is likely to run out of cash some time during October if the debt ceiling is not lifted before then
- History suggests that these squabbles 'go down to the wire' and may involve a temporary government 'shutdown' but won't result in a default

Note: The measure of US gross federal debt is at market value. Sources: <u>US Treasury Department</u>; <u>Federal Reserve Bank of Dallas</u>; US Bureau of Economic Analysis; <u>US Congressional Budget Office</u>; Corinna. <u>Return to "What's New"</u>.



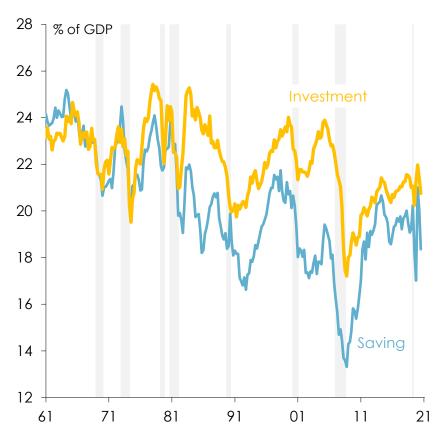
Any 'excess demand' resulting from 'excessive' stimulus is more likely to show up in the US current account deficit than in sustained higher inflation

US current account balance



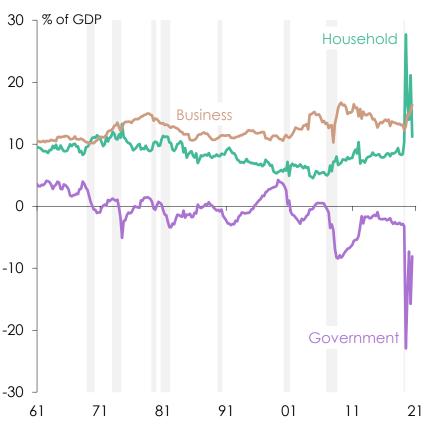
The US current account has widened since the recession that began last year – and in the first half of this year has been larger (as a pc of GDP) than at any time since the financial crisis

Gross saving and investment



Investment didn't fall much during this recession – perhaps because it didn't rise as much as usual during the preceding expansion (corporate tax cuts notwithstanding)

Gross saving by sector

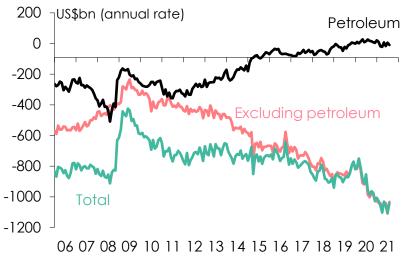


The dramatic increase in the budget deficit has been largely (but not totally) offset by an increase in household saving

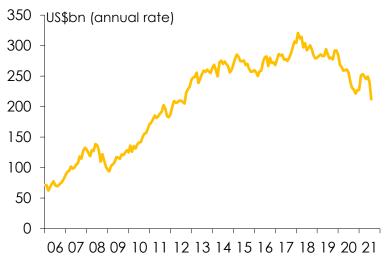


The US recorded its third-largest ever goods and services trade deficit in July, continuing a deterioration evident since the onset of Covid-19

US goods trade balance



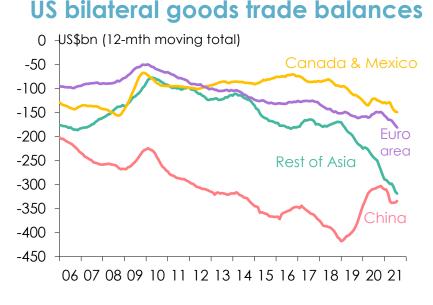
US services trade balance

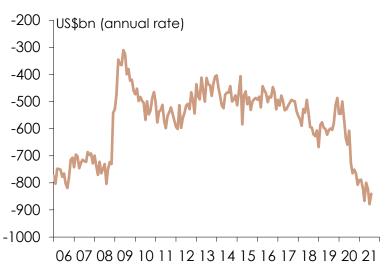


The US goods trade deficit widened by US\$0.8bn to \$87.6bn in August

- exports rose 0.7%, after a 1.8% increase in July,
 while imports rose 0.8%, cf a fall of 1.1% in July
- August's was the fourth-largest monthly deficit on record (the largest was \$92bn in June)
- ☐ The services surplus narrowed by \$2.3bn to \$17.7bn in July, the smallest since August 2012
 - exports rose 0.1% and imports 5.5%

US goods & services trade balance



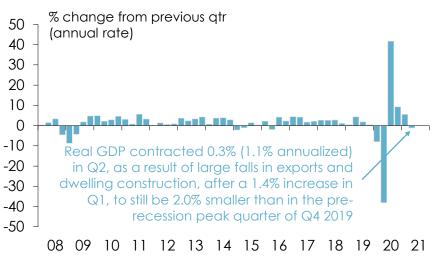


- ☐ The combined goods and services deficit in July was \$70.1bn, the third-largest ever
 - for the first seven months of 2021 the goods and services deficit was \$485bn, compared with \$354bn in the first seven months of 2020
- Any 'excess demand' resulting from 'over'stimulatory fiscal and monetary policies is more likely to show up in a larger current account deficit than in higher inflation – and these numbers are consistent with that

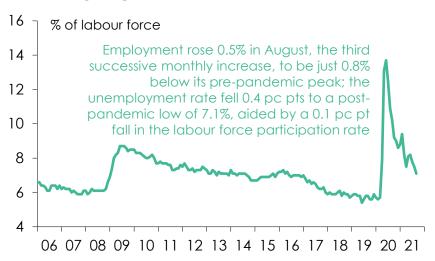


Employment in Canada increased in August for the third month in a row, and the unemployment rate fell 0.4 pc pts to 7.1%

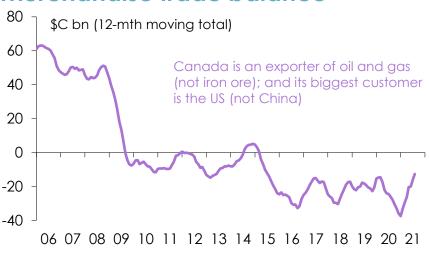
Real GDP



Unemployment rate



Merchandise trade balance



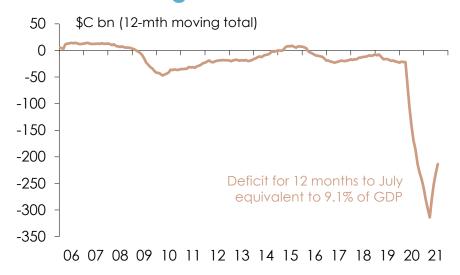
Consumer prices



Housing permits



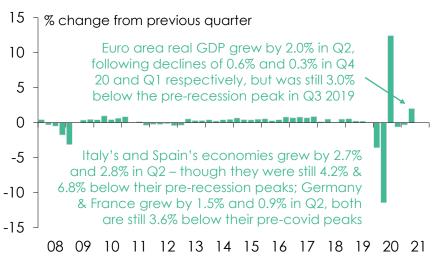
Federal budget balance



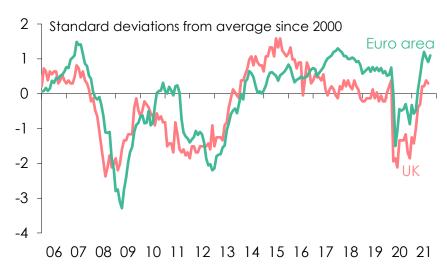


The euro area economy grew by 2% in Q2, though it's still 3% smaller than at its pre-recession peak in Q3 2019: UK GDP rose 4.8% in Q2

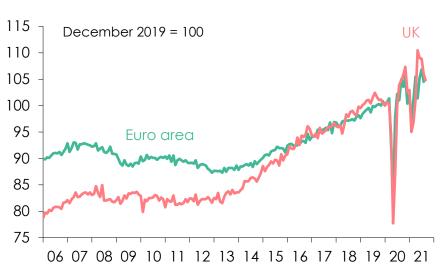
Euro area real GDP



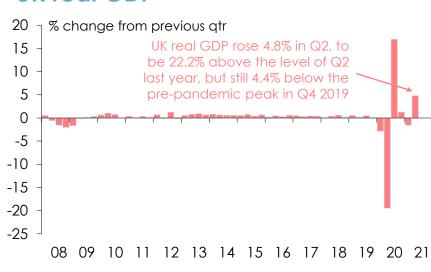
Consumer confidence



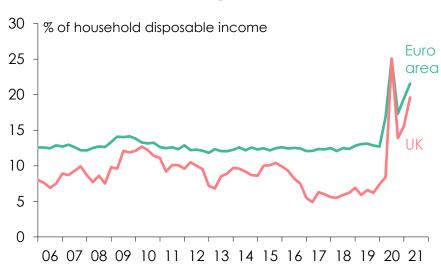
Retail sales volume



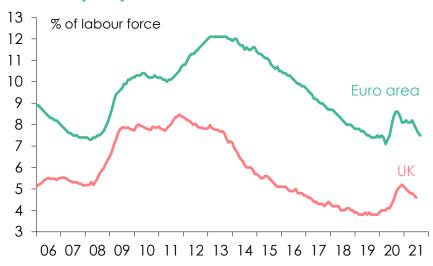
UK real GDP



Household saving ratio



Unemployment





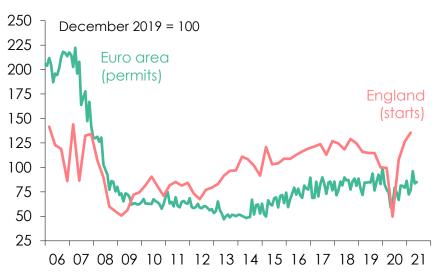


The euro area's recovery is stronger than the UK's (except for housing) even though the UK has provided more fiscal stimulus

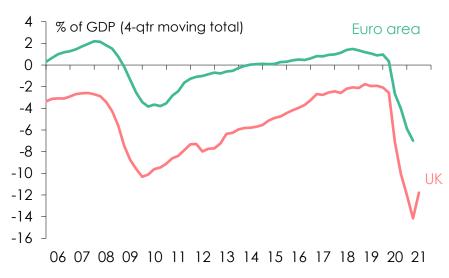
Business confidence



Housing activity



Government fiscal balance



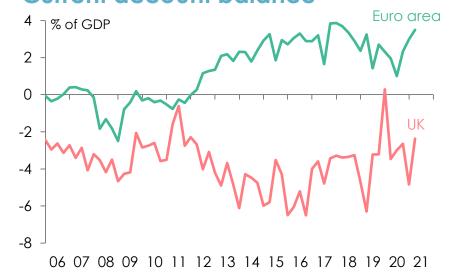
Manufacturing production



Merchandise exports



Current account balance





The centre-left SPD emerged as the largest single party from last Sunday's German election but it will likely take time to assemble a coalition

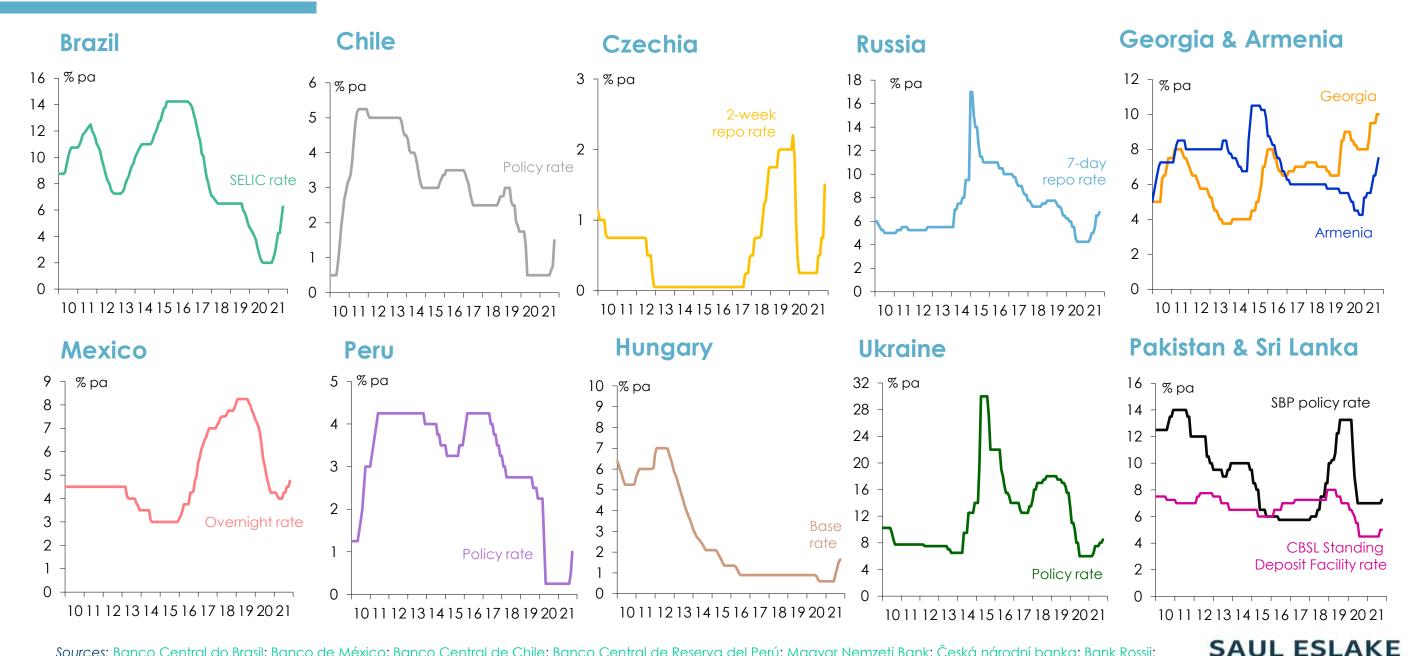
- ☐ The centre-left Social Democrats (SPD), led by Finance Minister Olaf Scholz, won 206 seats out of what is likely to be 735 seats in the Bundestag at last Sunday's election, a gain of 53, with 25.7% of the vote, an increase of 5.2 pc points ☐ The centre-right Christian Democratic Union (CDU) and Bavarian-based Christian Social Union (CSU) previously led by retiring Chancellor Angela Merkel won only 196 seats, down 50, with only 24.1% of the vote, a swing against it of 8.8 pc pts, and its lowest vote since the establishment of the Federal Republic of Germany in 1949 ☐ The Greens increased their share of the vote by 5.9 pc pts, to 14.8%, giving them 118 seats, an increase of 51, while the liberal (in the European sense of that term) Free Democratic Party gained 11.5% of the vote, up only 0.8 pc pt, but giving them an extra 12 seats taking their number to 92 ☐ Apart from the CDU/CSU the other losers were the far-right Alternativ für Deutschland, whose share of the vote dropped 2.3 pc pts to 10.3%, which sees them lose 11 seats to 83; and the far left Die Linke, whose share of the vote fell 4.3 pc pts to 4.9%, leaving them with 39 seats, 30 fewer than previously ☐ With neither of the major parties having anywhere near a majority in the Bundestag, nor any appetite for forming a 'grand coalition' as they have in two of the past three Bundestags, there will likely be protracted negotiations before a coalition between either the SPD or CDU/CSU and the FDP and Greens can be formed the FDP and Greens have begun discussions to ascertain whether they can work together, and if so which of the two major
 - parties they would prefer to be in coalition with
 - the most likely outcome would appear to be a 'traffic light' coalition with the SPD, rather than a 'Jamaica' coalition with the CDU/CSU, though that certainly can't be ruled out
- ☐ Until a government is formed and approved by the Bundestag, Angela Merkel will continue as 'caretaker' Chancellor



The Czech and Mexican central banks both raised their policy rates by more than expected this week, while Colombia's raised its for the first time

- ☐ The <u>Czech National Bank</u> raised its two-week reporate by 75 basis points to 1.50% on Thursday, a much larger increase than the 25 bp hikes implemented in June and August
 - the CNB's Deputy Governor had foreshadowed a 50 bp hike in an interview two weeks ago
 - the CNB Board "assessed the risks and uncertainties of the summer forecast as being markedly inflationary and hence requiring a faster rise in interest rates", citing in particular "the unexpectedly strong contribution of the cost of owner-occupied housing" to headline inflation (which reached 4.1% over the year to August, the highest since November 2008), "renewed overheating of the domestic labour market" and "growing public concerns about inflation"
 - It indicated that it would "not allow [households' inflation expectations] to become more significantly unanchored from the
 [25] target"
- Banco de México raised its overnight interbank interest rate by 25 basis points to 4.75% at its Thursday Governing Board meeting, the third such increase so far this year following similar moves in June and August
 - the Board considered that although the "shocks that have increased inflation" (to 5.9% over the year to September) are "expected to be transitory", their "variety, magnitude and extended horizon ... may pose risks to the price formation process and to inflation expectations"
 - hence the Board decided to "reinforce the monetary stance by adjusting it to the trajectory required for inflation to converge to its 3% target within the forecast horizon"
- <u>Banco de la República Colombia</u> raised its benchmark interest rate by 25 basis points, to 2%, on Friday, the first time it has raised rates since July 2016 (three of the seven board members favoured a 50 bp increase)
 - the Board's decision was prompted by upward revisions to its forecasts for economic growth this year and next which suggested that "excess productive capacity could be closed more quickly than previously anticipated"
 - and by "the risk of deviation in expected inflation compared to the target becoming a persistent phenomenon that could lead to indexation at higher rates of inflation"

A growing number of 'emerging' market central banks have begun tightening monetary policy

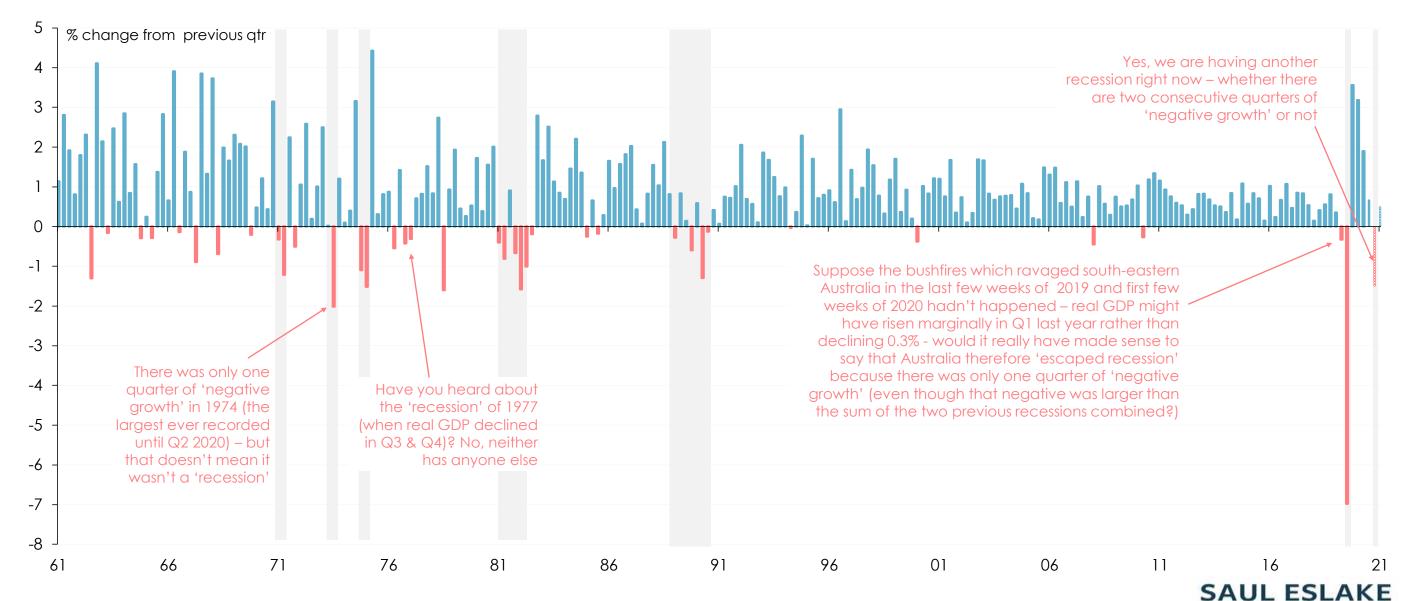


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Australia

Australia's real GDP grew by 0.7% in the June quarter, thus (for now) allaying fears of a second 'technical recession' – but this misses the point

Quarterly growth in Australian real GDP, 1961-2021

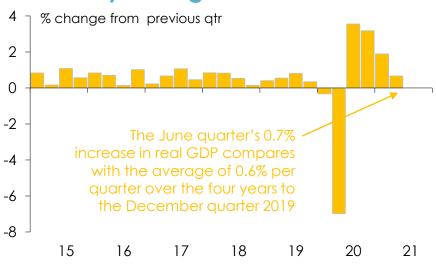


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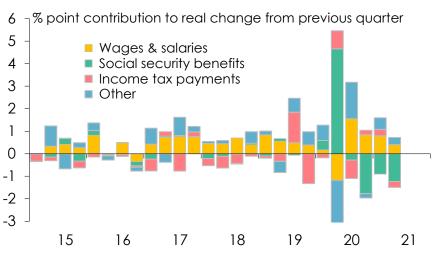
INDEPENDENT ECONOMICS

All the major components of domestic demand contributed to the June quarter's 0.7% GDP growth, but stocks and net exports detracted

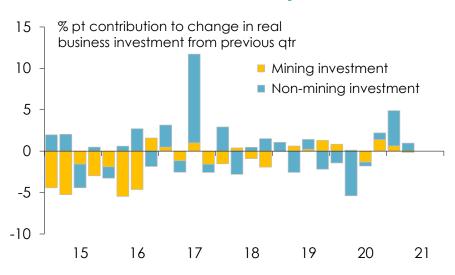
Quarterly change in real GDP



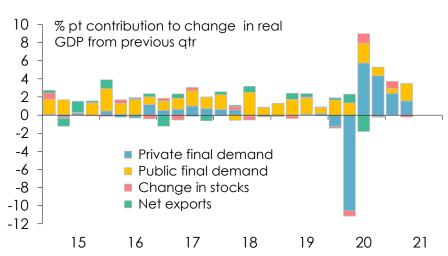
Household disposable income



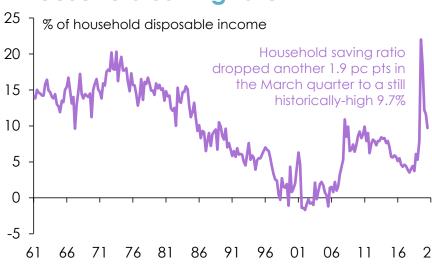
Business investment expenditure



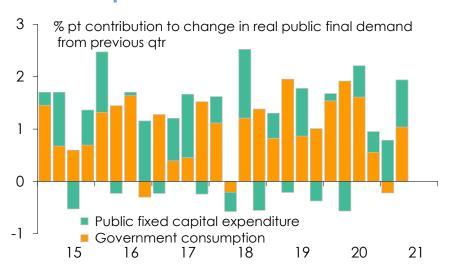
Contributions to quarterly GDP growth



Household saving rate



Public expenditure

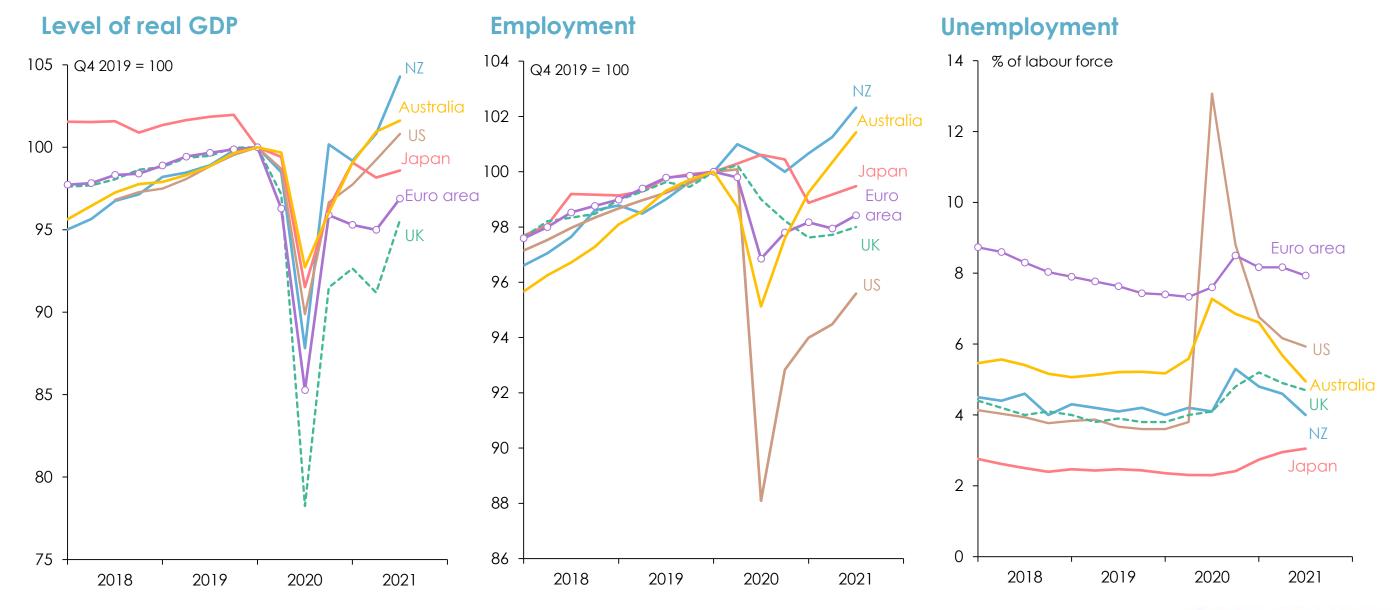


Note: Components of household disposable income are deflated by the implicit price deflator of household final consumption expenditure.

Source: ABS, <u>Australian National Accounts: National Income, Expenditure and Product</u>, June quarter 2021. September quarter national accounts will be released on 1st December, Return to "What's New".



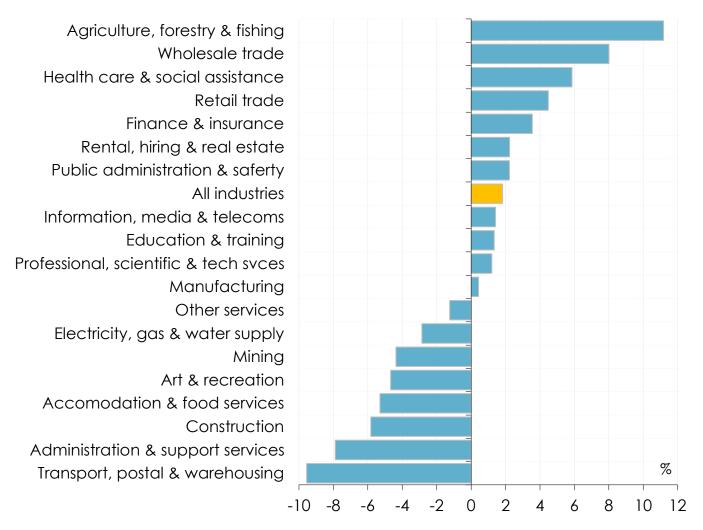
Australia's recession wasn't as severe as, and its recovery has been stronger than, most other 'advanced' economies – but will that continue?



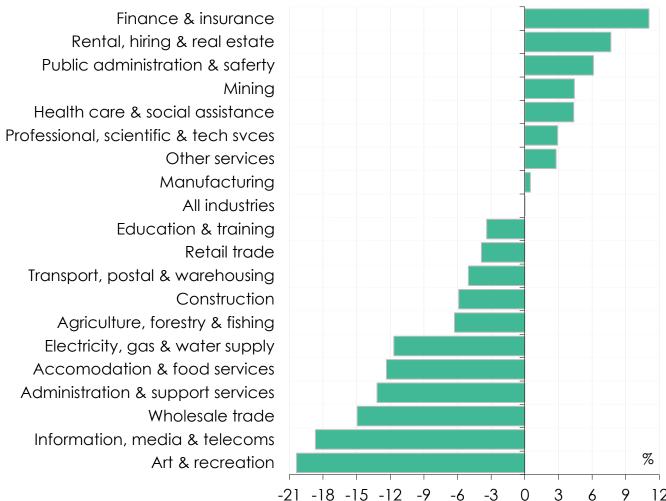


Though stronger-than-expected overall, the recovery in economic activity and employment has been very uneven across sectors

Q2 2021 real gross value added by industry – change from pre-pandemic peak



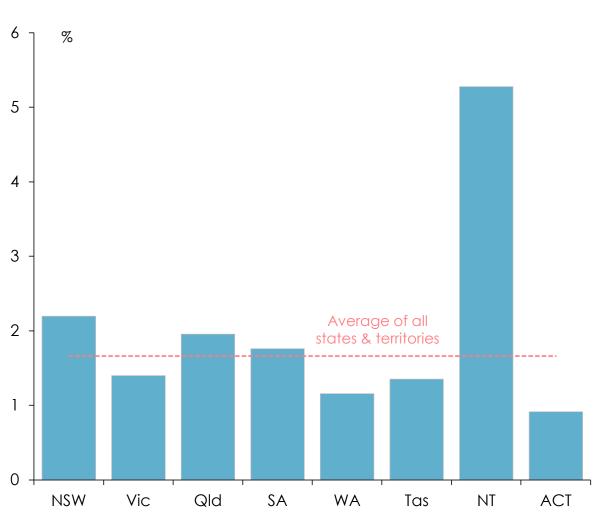
Q3 2021 employment by industry – change from pre-pandemic peak





Up to Q2, Western Australia has had the strongest recovery in 'final demand', while Victoria and (especially) the Northern Territory

Change in real state final demand, June quarter 2021 compared with March quarter



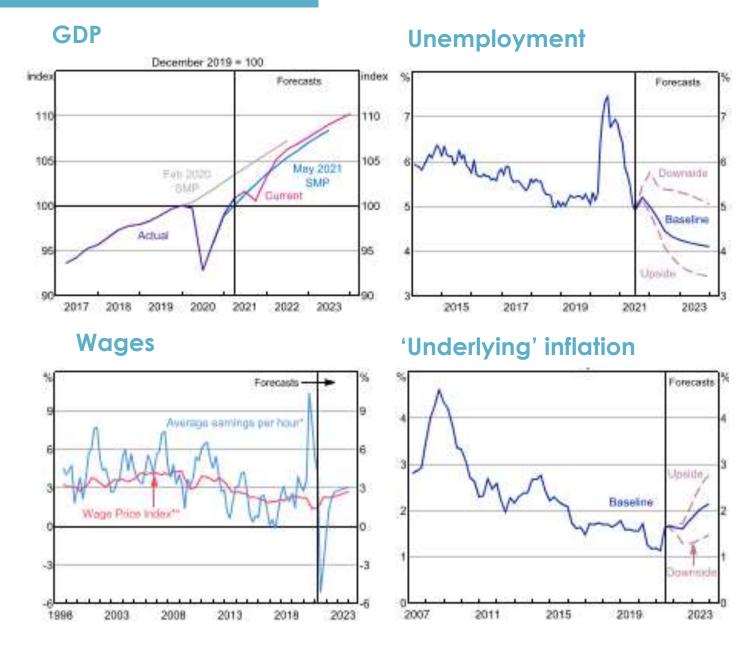
Shortfall between June quarter 20201 state final demand and pre-recession peak



Note: 'State final demand' is the sum of spending by households, businesses and governments within a state or territory's borders: it differs (conceptually) from gross state product (GSP), which is only available on a financial year basis, by the sum of net international and interstate trade, and changes in business inventories. Source: ABS, <u>Australian National Accounts: National Income, Expenditure and Product</u>, June quarter 2021. September quarter national accounts will be released on, 1st December. Return to "What's New".



The RBA has raised its growth forecasts and lowered its forecast for unemployment next year but its inflation forecast is little changed

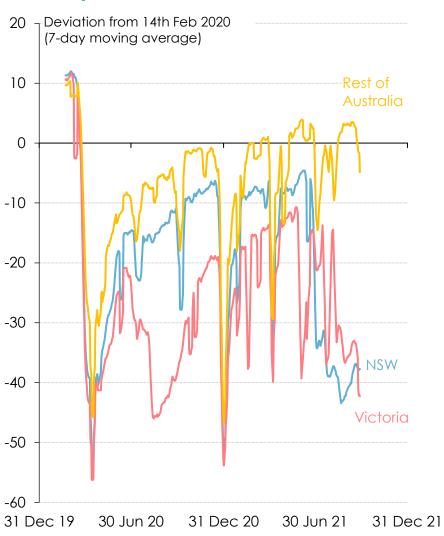


- □ Economic growth and in particular employment growth have continued to outpace the RBA's forecasts – but wage and price inflation haven't
- In its latest <u>Statement on Monetary Policy</u> published four weeks ago, the RBA acknowledged that current lockdowns would temporarily derail the recovery, with GDP expected to contract by "at least 1%" in Q3, and the unemployment rate to increase
- Nonetheless, assuming "recent outbreaks can be brought under control soon and further lockdowns are limited", the RBA has revised <u>up</u> its forecasts for GDP growth over the year to Q4 2022 (from 3½% to 4¼%) after 4% (down from 4¾%) over the year to Q4 2021, and <u>lowered</u> its forecast for Q4 2022 unemployment (from 4½% to 4¼%) with a further fall to 4% expected by Q4 2023
- ☐ The RBA has revised its forecast for wages (WPI) growth marginally higher to 2¾% by end-2023
- □ Its forecasts for 'underlying' inflation are unchanged through to Q4 2022 (at 1¾%) but thereafter "to pick up a little more quickly than previously anticipated" (as a result of the "faster reduction in spare capacity" to 2¼% in Q4 23
- The RBA contemplates other scenarios (based on more outbreaks & lockdowns or faster vaccination rates) but its central scenario remains no rate hikes until 2024

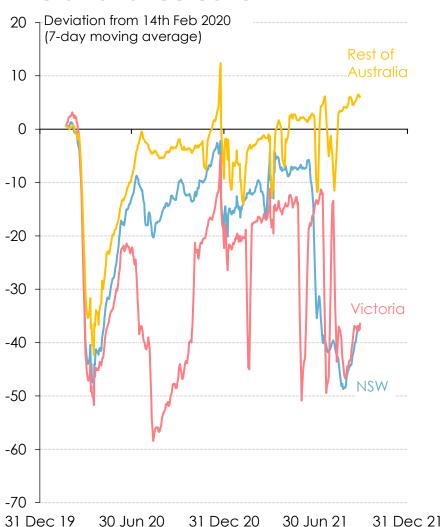
'Mobility indicators' illustrate the impact of lockdowns in NSW and Victoria on economic activity in those states – but also the recent first easings

Google mobility indicators

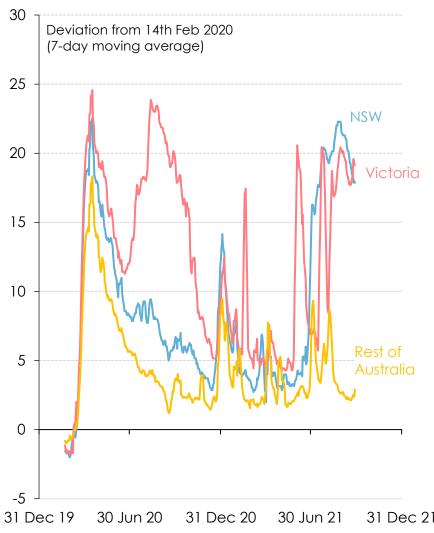
Workplaces



Retail and recreation



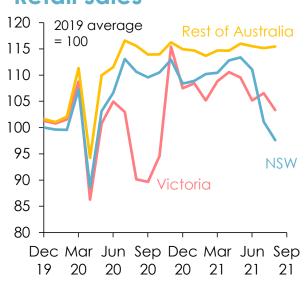
Residences



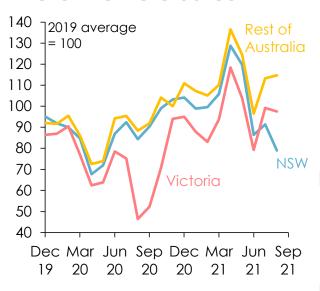


The extended lockdowns in Sydney, Melbourne and Canberra are increasing the risk of a second recession in two years

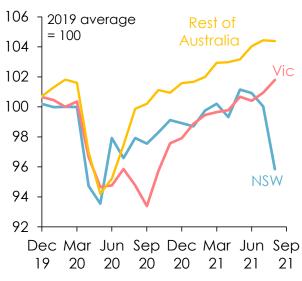
Retail sales



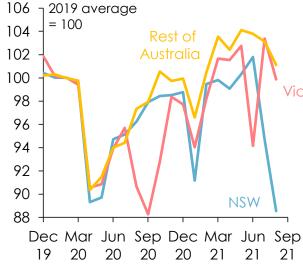
Motor vehicle sales



Employment



Hours worked



Sources: ABS<u>, Retail Trade</u>, Australia and <u>Labour Force</u>, Australia; FCAI, <u>VFACTS</u>. Corinna. Return to "What's New".

- ☐ A <u>widely-quoted estimate</u> is that the 'Greater Sydney' lockdown has a 'cost' (economic activity foregone') of about \$1bn a week
 - if the 'Greater Sydney' lockdown lasts until the end of September
 (14 weeks) that would imply a 'cost' of \$14bn
 - there will also now be some additional costs arising from lockdowns in the rest of NSW and in the ACT
- ☐ Victoria's recurring lockdowns are likely to have a similar weekly cost to that in 'Greater Sydney'
 - although it seems reasonable to assume they won't last as long, in total, as New South Wales
- □ Australia's GDP is about \$2,100 billion a year (\$525bn a quarter, \$40 billion a week)
 - real GDP might have grown by (say) 1½% in the September quarter without lockdowns under the above assumptions, but it now seems probable that real GDP will instead contract by at least 2% in the September quarter (see <u>slide 90</u>)
 - with real GDP having grown 0.7% in the June quarter Australia will probably avoid consecutive quarters of 'negative growth' if restrictions can be eased in October
 - but that's a <u>lazy and silly definition of a recession</u> a more meaningful one is when unemployment rises by 1½% or more in 12 months or less and that has 'effectively' happened already (see slide 107)

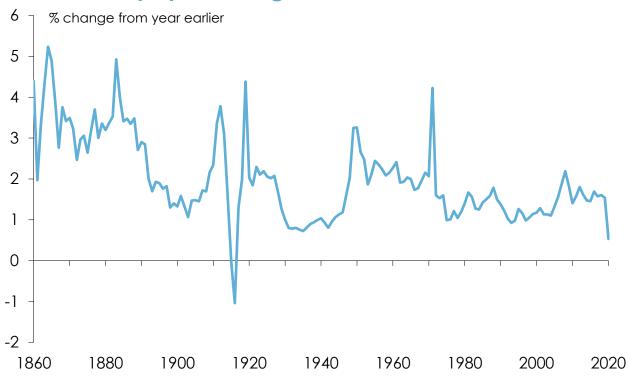
 SAUL ESLAKE

Australia's border measures have been stricter than almost any other country (and certainly any democracy)

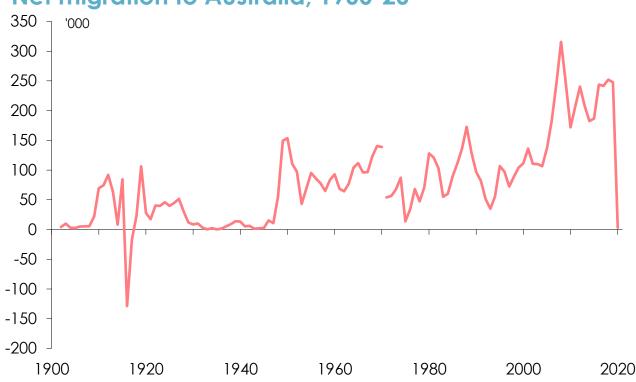
- □ Article 12 of the United Nations International Covenant on Civil and Political Rights (which Australia signed in 1972, and which it ratified in 1980) says
 - "everyone shall be free to leave any country, including his [sic] own" and "no-one shall be arbitrarily deprived of the right to enter his [sic] own country"
- ☐ Australia is the only democracy in the world not to have enacted this Convention into domestic law
- ☐ The ICCPR does include a couple of 'get out' clauses
 - Article 4 provides that "In time of public emergency which threatens the life of the nation and the existence of which is
 officially proclaimed [parties to this Convention] may take measures derogating from their obligations under [it] to the extent
 strictly required by the exigencies of the situation", and
 - Article 12 provides that the rights to leave a country (or to move within it) "shall not be subject to any restrictions except those which are provided by law, are necessary to protect national security, public order, public health or morals or the rights and freedoms of others" although this exclusion doesn't apply to the above-mentioned right to enter one's own country
- □ No other democracy appears to have availed itself of these 'get-out' clauses to the extent that Australia has
 - The Federal Court <u>decided</u> in May this year that the Federal *BioSecurity Act* over-rode any "rights of entry" into Australia that the 'common law' may otherwise confer on Australian citizens
 - and the already-draconian restrictions on Australians leaving were surreptitiously <u>further tightened</u> last month
- ☐ The widely-cited Oxford University index of the stringency of government Covid-related restrictions does not include outward travel bans or restrictions on citizens returning
 - according to <u>Toby Phillips</u>, the Executive Director of the Oxford Government Response Tracker project, "we assumed countries would always let their own citizens return" and "we even wrote this into our training for data collectors, telling them to only focus on restrictions for non-citizens"
- ☐ The Australian Government's uniquely 'hard line' on border crossings is in marked contrast with its reluctance to directly confront Australia's surprisingly high 'vaccine hesitancy'
 - probably because it suspects that 'vaccine hesitancy' is highest among groups whose votes it needs at the next election

Australia's population grew by just 0.5% during 2020, the slowest rate since 1916, due to the border closure





Net migration to Australia, 1900-20



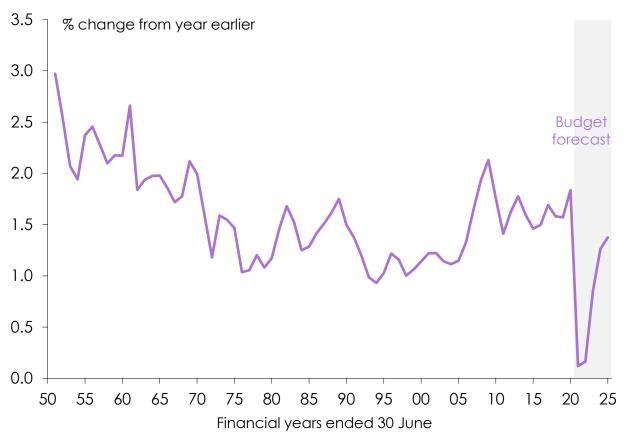
CORINNA ECONOMIC ADVISORY

INDEPENDENT ECONOMICS

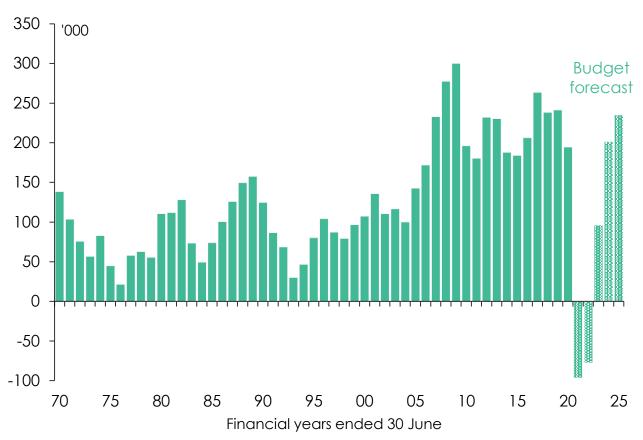
- □ Only 76K immigrants came to Australia in the last nine months of 2020, while 151K people departed permanently implying a net outflow of almost 68,000 people
- □ As a result, Australia's population growth rate fell to just 0.5% over the year to Q4 2020, the slowest since 1916
- □ Last month's <u>halving of the 'cap' on the number of arrivals allowed into Australia</u> (from 6,070 to 3,035 per week) will likely result in a further slowing in population growth (for as long as the lower 'cap' lasts no time limit has been given)
- Slower growth in the working-age population does however mean that a given rate of employment growth results in faster reductions in the unemployment rate (all else being equal)
 SALL ESLAKE

The Budget assumes that Australia's borders remain closed until after the next election – after which migration returns to pre-covid levels by 2024-25

Population growth



Net overseas migration

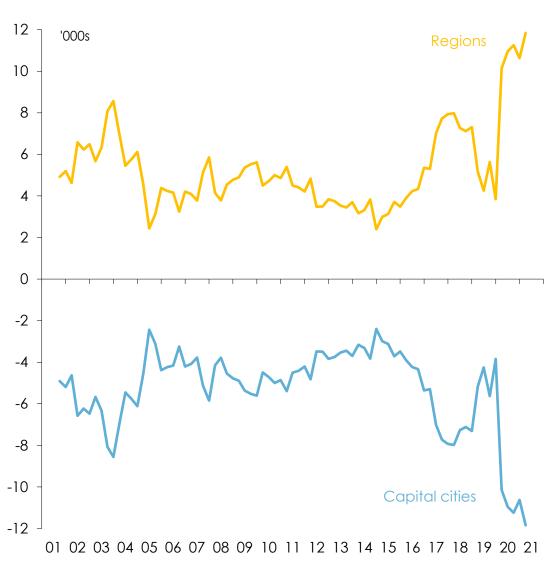


INDEPENDENT ECONOMICS

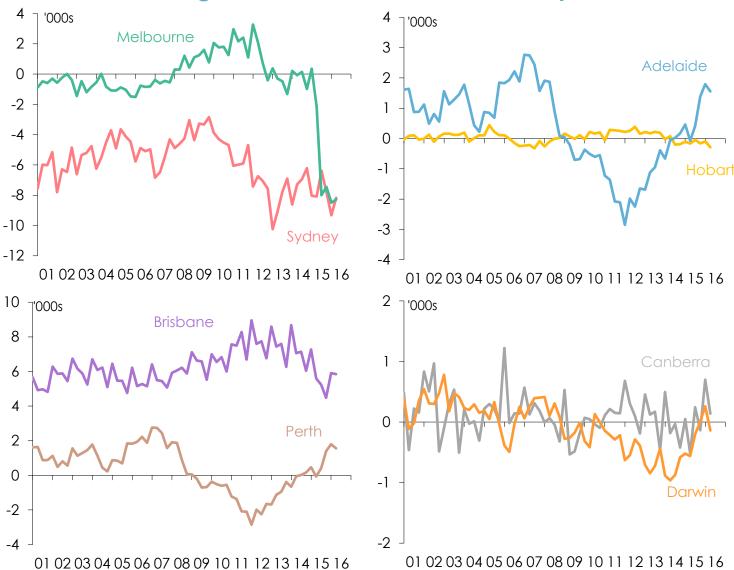
Opinion polls have consistently indicated very high levels of popular support for keeping Australia's international borders closed – which (more than anything else) likely explains why the Government's position has changed from last year's "we can't keep Australia under the doona" to this year's "our borders will remain shut as long as it's in Australia's interest to protect the health of Australians but also to protect Australia's economy" – and why the assumed date for re-opening the borders is after the latest possible date for the next election (21st May)

Another important demographic change wrought by Covid-19 has been the shift of people out of capitals (especially Melbourne) to regions

Internal migration flows



Net internal migration to or from Australia's capital cities



Note: 'internal migration' refers to the movement of people already resident in Australia across specified boundaries (in this case, between 'greater capital city' areas and 'rest of state'), estimated using data from Medicare and (for military personnel) the Department of Defence. It does not include movements of overseas immigrants (or Australian residents departing for overseas). Source: ABS, Regional internal migration estimates, provisional, March 2021. Return to "What's New".



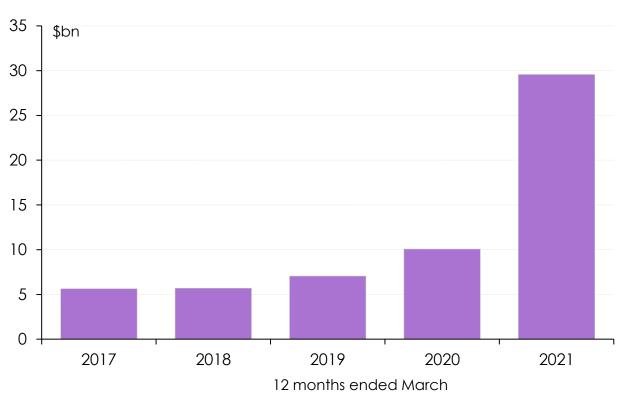
The taboo on Australians leaving the country more than offsets the loss of spending by foreign tourists and students

Travel credits and debits



Over the four years to March 2020, Australians spent an average of \$54bn per annum on overseas travel – as against just \$1bn spend in that way over the 12 months to March 2021, 'freeing up' a large amount which appears to have been spent in other ways (electronics, household goods, clothes, cars etc.)

Net travel transactions

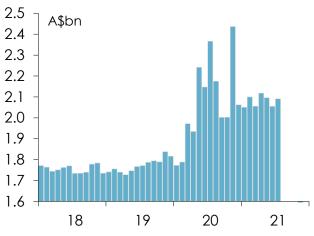


Despite restrictions, foreigners still spent \$31bn in Australia in the 12 months to March 2021 (cf. an average of \$61bn per annum over the previous four years) implying a *net gain* to Australia during 12 months to March this year of almost \$22½bn by comparison with the 2016-19 average – equivalent to about 1¼% of GDP

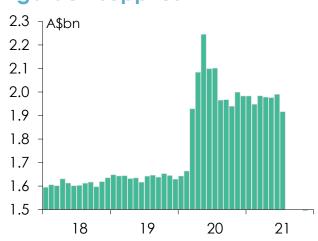


The >\$50bn per annum that Australians would have spent overseas if they'd been allowed to has instead been spent at home

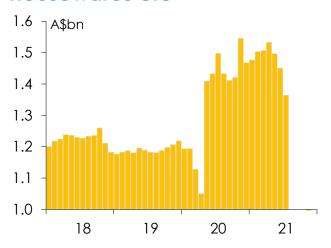
Electronic & electrical goods



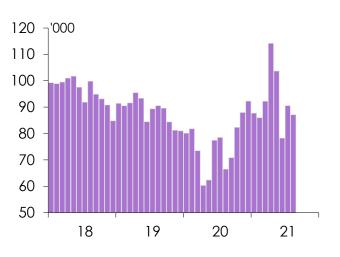
Hardware, building & garden supplies



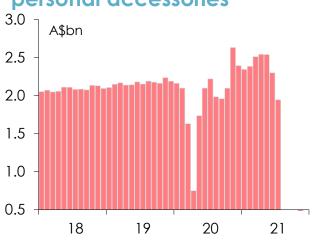
Floor coverings, furniture, housewares etc



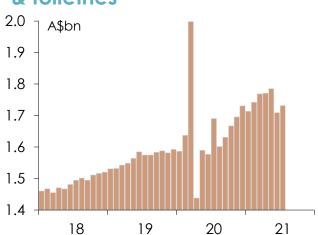
New motor vehicles



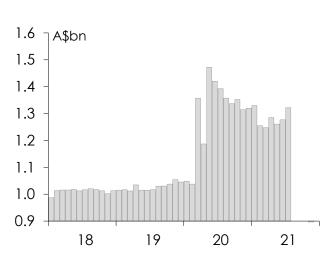
Clothing, footwear & personal accessories



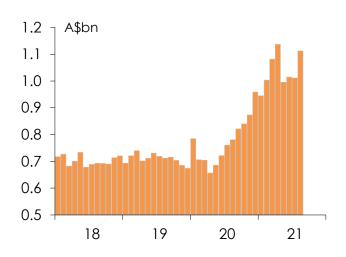
Pharmaceuticals, cosmetics & toiletries



Alcoholic beverages

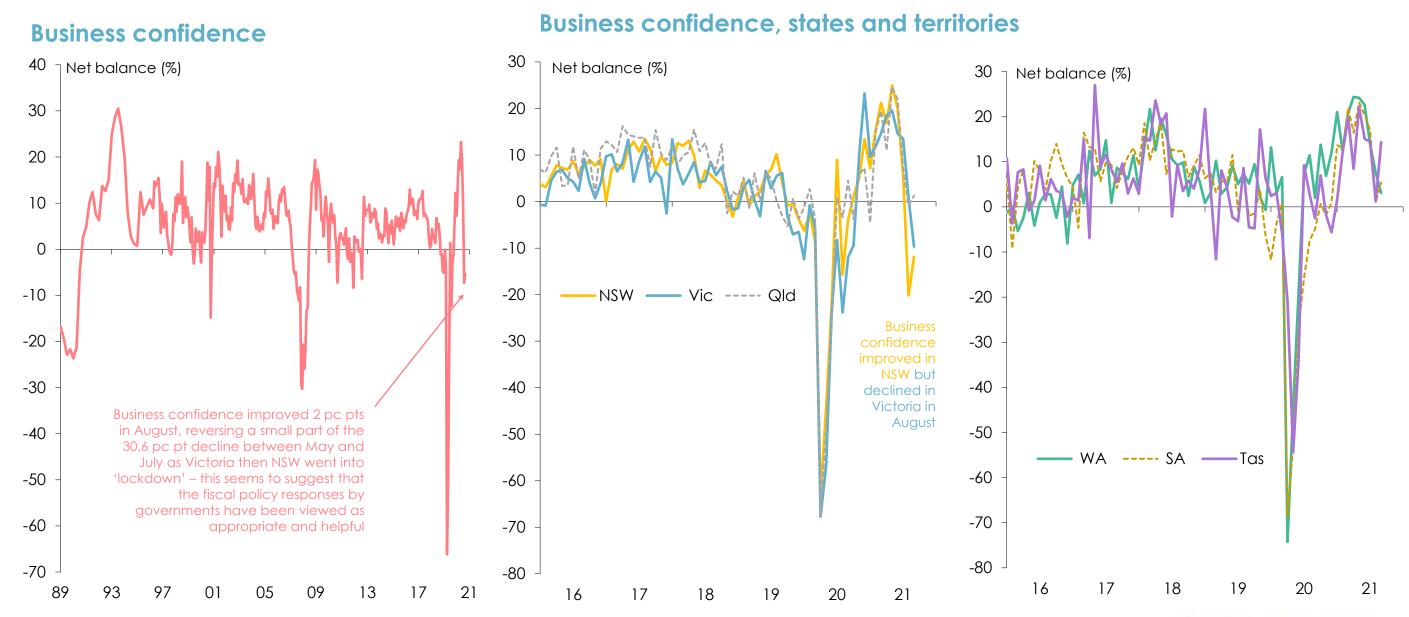


Renovations



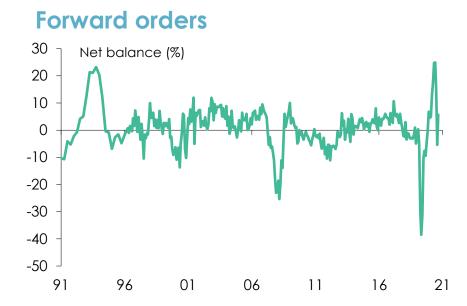


Business confidence recovered slightly in August which probably means that government policy responses have been viewed as effective

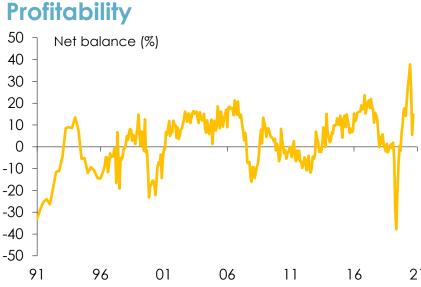


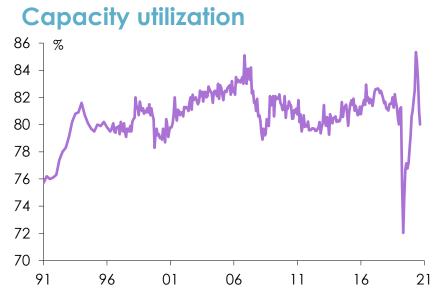
Almost all of the components of 'business conditions' improved in August, except for hiring intentions: forward orders rebounded strongly

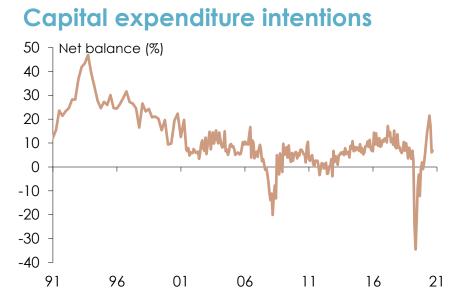
Trading conditions 50 Net balance (%) 40 - 30 - 20 - 10 - 20 - 30 - 30 - 40 91 96 01 06 11 16 21 Profitability 50 Net balance (%)











Employment fell sharply in August, particularly in NSW, but most of those who lost jobs also left the workforce, so the unemployment rate fell again

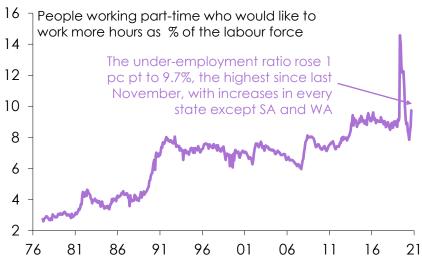
Employment



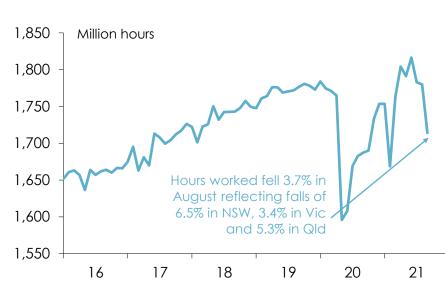
Labour force participation rate



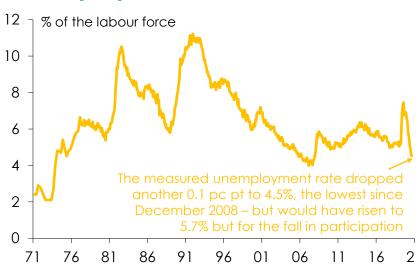
Under-employment ratio



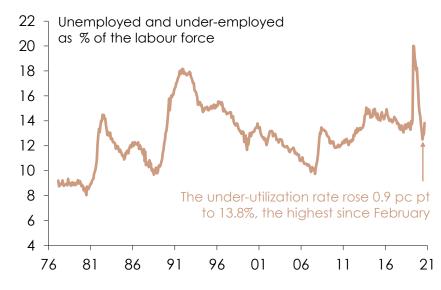
Total hours worked



Unemployment rate



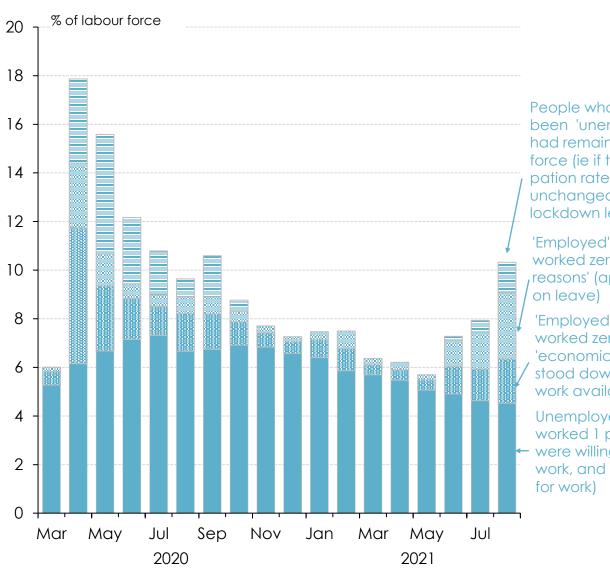
'Under-utilization' rate





The 'effective' unemployment rate has risen from 5.7% in May to 10.3% in August, due to more 'working' zero hours or 'dropping out' of the workforce

Alternative measures of unemployment



People who would have been 'unemployed' if they had remained in the work force (ie if the participation rate had remained unchanged from its prelockdown level)

'Employed' people who worked zero hours for 'other reasons' (apart from being on leave)

'Employed' people who worked zero hours for 'economic reasons' (being stood down or insufficient work available)

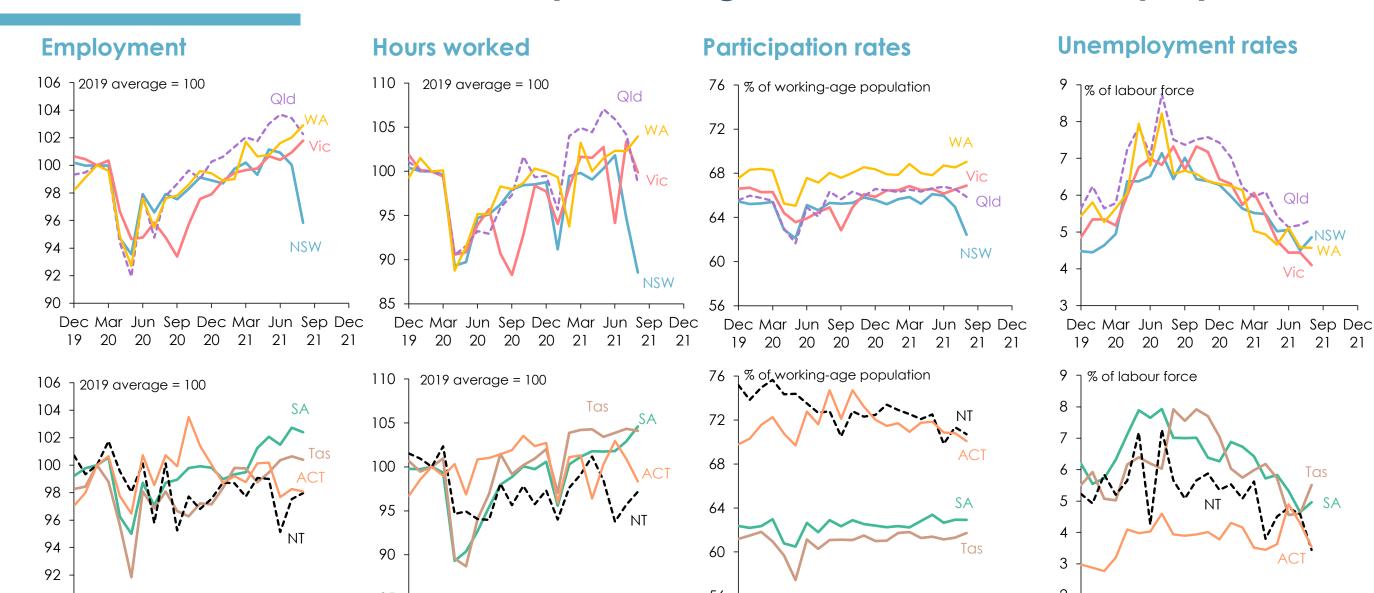
Unemployed (people who worked 1 paid hour or less, were willing & able to work, and 'actively looked' for work)

- □ The number of people counted as 'employed' but who worked zero hours for 'economic reasons' (no or insufficient work, or 'stood down') rose another 68K in August (to 249K), following increases of 97K in June and 25K in July,
 - There was also a 164K increase (to 371K) in the number of people working zero hours for 'other reasons' (apart from being on annual or other forms of leave) in August, after increases of 121K in June and 57K in July
 - Finally, there were 169K people in NSW in August (up from 67K in July) plus 2.5K in the ACT who (as proxied by falls in the participation rate from pre-lockdown levels) have 'dropped out' of the workforce rather than being classified as 'unemployed'
 - If all of these people are instead regarded as having been 'unemployed', then the unemployment rate would have risen to 10.3% in August, up from 5.3% in May, 7.3% in June and 7.9% in July
 - although that's still well down from a peak of 17.8% in April last year
 SAUL ESLAKE

INDEPENDENT ECONOMICS

Source: ABS, Labour Force, Australia, August 2021; Corinna. September data will be released on 14th October. Return to "What's New".

Lockdowns show up in falls in hours worked and participation rates — in Victoria in June, in NSW in July and August – rather than in employment



Dec Mar Jun Sep Dec Mar Jun Sep Dec

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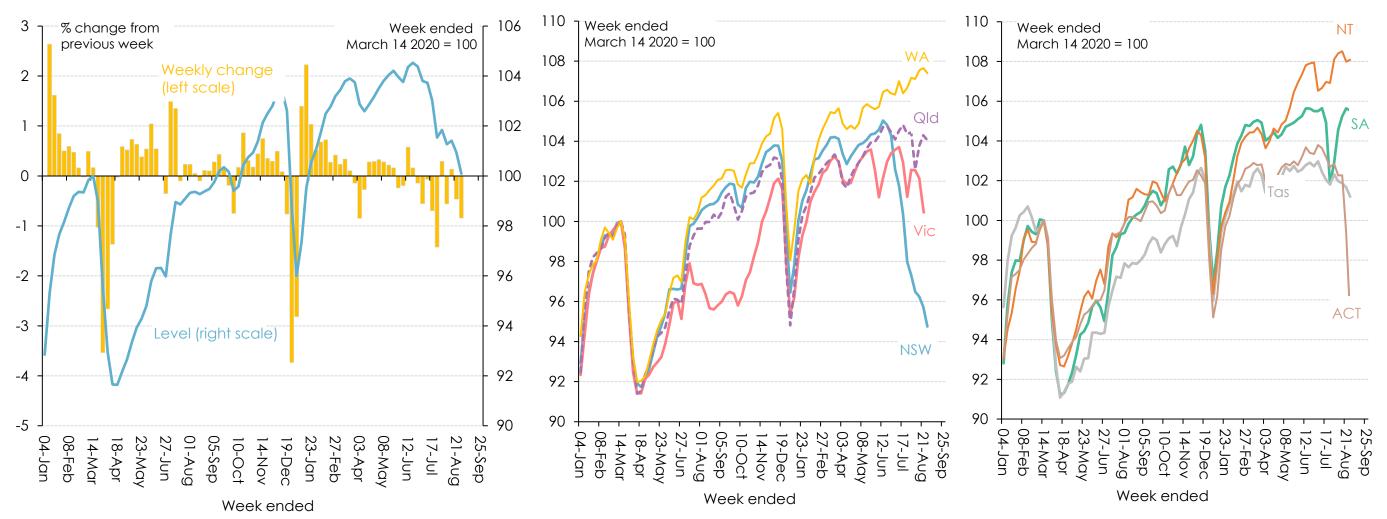
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Payroll jobs have fallen by 4.2% since lockdowns began in mid-June, with falls of 9.8% in NSW, 8.4% in the ACT and 4.3% in Victoria

Level and weekly change in the number of payroll jobs

Payroll jobs by State & Territory



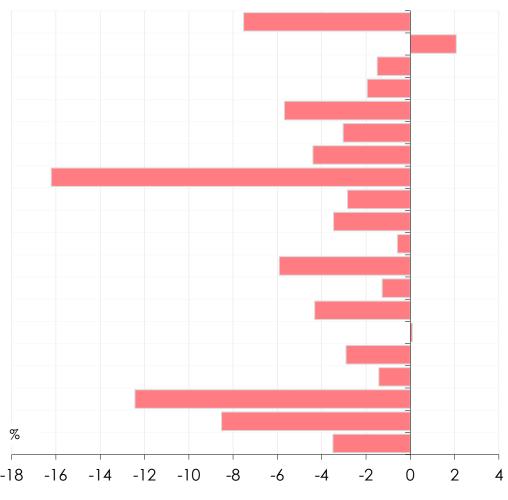
Source: ABS, Weekly Payroll Jobs and Wages in Australia, Interim. Data refers to the number of payroll jobs at businesses participating in the Australian Taxation Office's Single Touch Payroll system, which covers 99% of employers with 20 or more employees and about 71% of smaller employees. People with two or more jobs (about 6% of the total) are double-counted; employers and the self-employed are not included. Data are not seasonally adjusted (so at least some of the week-to-week variations could be due to 'normal' seasonal factors): and the two most recent weeks are subject to (what have often been large) revisions. Return to "What's New".



The same sectors, and the same groups, that were hardest hit in last year's lockdowns have been hardest hit in the latest one (plus agriculture)

Change in payroll jobs between week ended 26th June and week ended 14th August

By industry

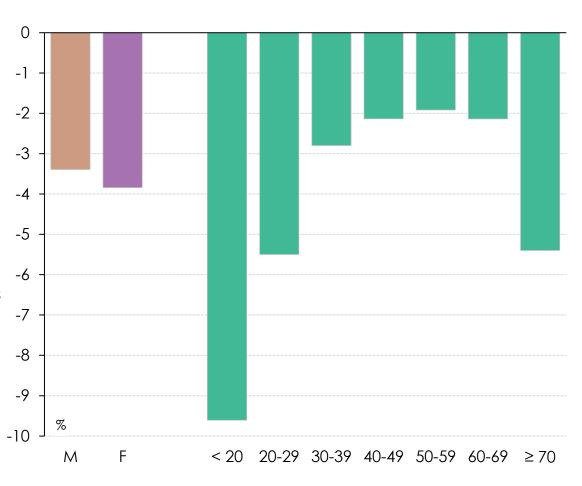


Mining
Manufacturing
Electricity, gas & water supply
Construction
Wholesale trade
Retail trade
Accomodation & food services
Transport, postal & warehousing
Information, media & telecoms
Finance & insurance
Rental, hiring & real estate
Professional, scientific & tech svces
Administration & support services
Public administration & saferty
Education & training

Health care & social assistance

Agriculture, forestry & fishing

By gender and age



Source: ABS, <u>Weekly Payroll Jobs and Wages in Australia</u>. Data refers to the number of payroll jobs at businesses participating in the Australian Taxation Office's Single Touch Payroll system, which covers 99% of employers with 20 or more employees and about 71% of smaller employees. People with two or more jobs (about 6% of the total) are double-counted; employers and the self-employed are not included. Data are <u>not</u> seasonally adjusted (so at least some of the week-to-week variations could be due to 'normal' seasonal factors); and the two most recent weeks are subject to (what have often been large) revisions. Return to "What's New".

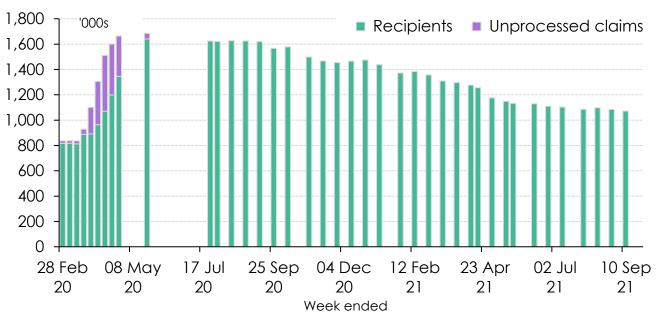
Art & recreation
Other services

Total

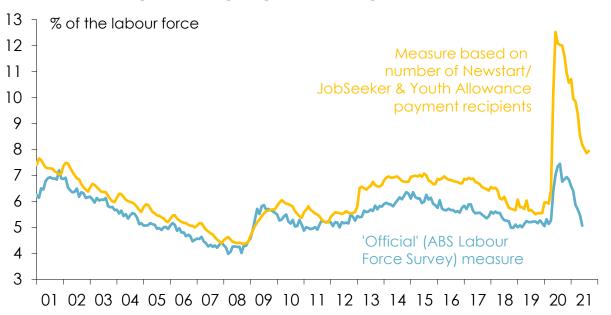


The number of people receiving 'unemployment benefits' fell to a post-pandemic low in the first half of September (despite lockdowns)

Number of people receiving or seeking Newstart/ JobSeeker or Youth Allowance payments



Jobless income support beneficiaries and labour force survey unemployed as a pc of the labour force



CORINNA ECONOMIC ADVISORY

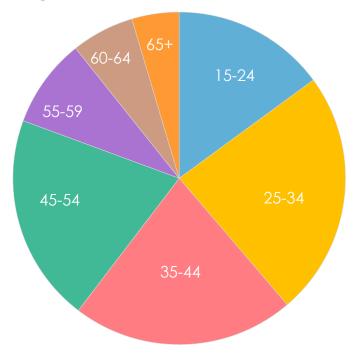
INDEPENDENT ECONOMICS

- Ministers receive weekly data on the number of people on JobSeeker and Youth Allowance (Other) benefits which since late July last year the Department of Social Services has made this available every second week to the Senate Select Committee examining the Government's responses to Covid-19
- □ The number of people receiving JobSeeker or Youth Allowance (Other) payments fell by 12,603 (1.2%) over the two weeks to 10th September to its lowest level since the week ended 20th March last year about half the fall was in Queensland, with smaller falls in Western Australia and New South Wales
- □ People displaced from employment as a result of recent lockdowns are entitled to receive a range of other payments from the Federal or state governments, though these will 'taper off' once vaccination rates pass the thresholds set out in the Government's 'National Plan' see <u>slides 145-146</u>

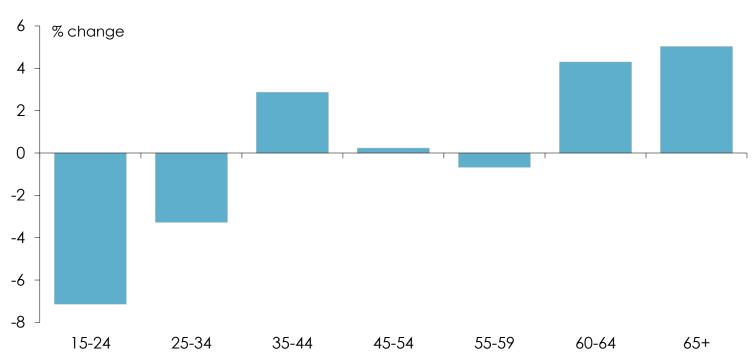
 SAUL ESLAKE

Younger workers bore the brunt of job losses during the early stages of the pandemic and have had a more difficult time regaining jobs

Composition of employment by age group, February 2020



Change in employment between February 2020 and August 2021, by age group



CORINNA ECONOMIC ADVISOR

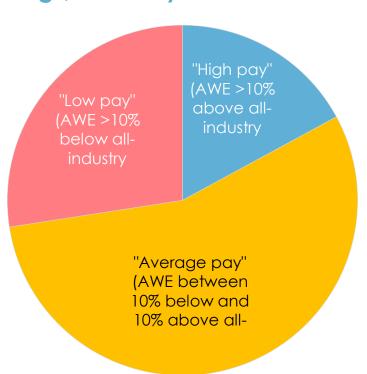
INDEPENDENT ECONOMICS

- People aged 15-24 accounted for 15% of pre-covid employment but experienced 39% of all job losses between February and May last year and 50% of all job losses between June and August this year their employment is down 7.1% from the prepandemic peak in February last year
- □ Likewise 25-34 year-olds accounted for 25% of all job losses between February and May last year, and for 23% of all job losses between June and August this year their employment is down 3.3% from February last year
- By contrast most older age groups have fared much better, in particular 35-44 year-olds, and the (relatively smaller number of) people aged 60 and over

 SAUL ESLAKE

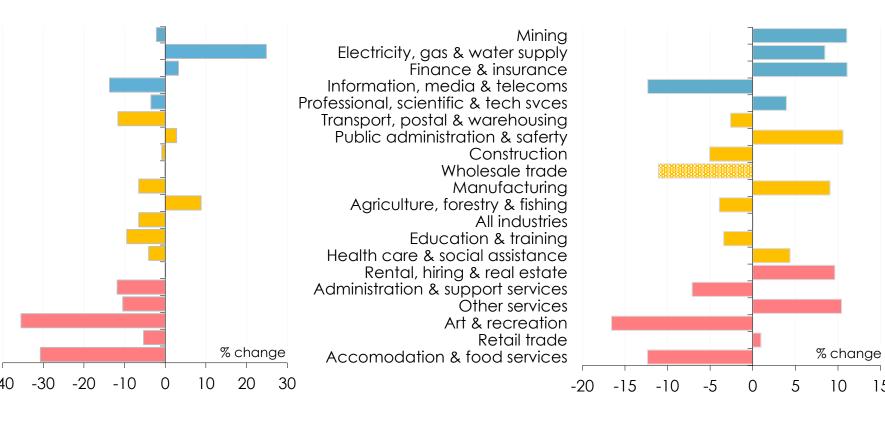
Workers in low-pay industries experienced the bulk of job losses during the downturn and the greatest difficulty regaining them since then

Composition of employment by industry ranked by average weekly earnings, February 2020



Change in employment by industry February-May 2020



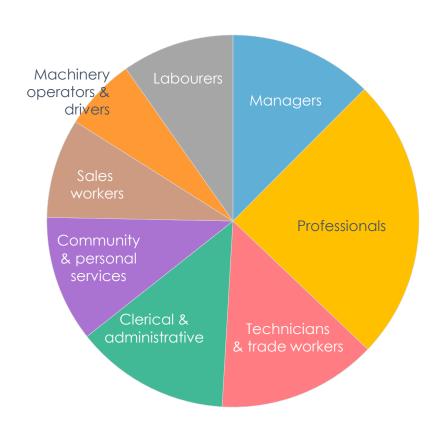


- Industries with average earnings which are 10% or more below average accounted for 27½% of the pre-pandemic workforce, but experienced 64% of the job losses between February and May last year and 89% of job losses between May and August this year employment in these industries was down 2.9% between February last year and August this year
- By contrast employment in "high pay" industries (17% of the pre-pandemic workforce) was 4.9% higher in August than it had been in February last year

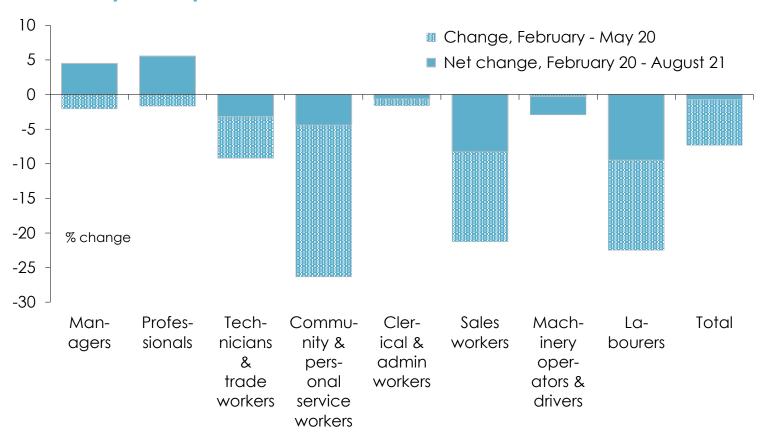


Community & personal service workers, sales workers and labourers have borne the brunt of job losses since the onset of the pandemic

Employment by major occupation category, February 2020



Change in employment between February 2020 and August 2021, by occupation

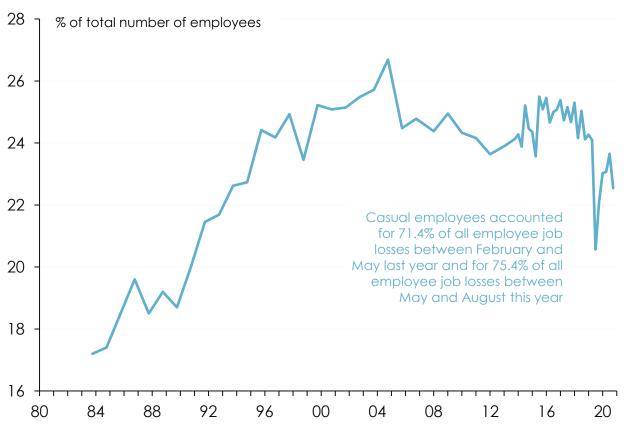


- □ Community & personal services workers, sales workers and labourers accounted for 29% of the pre-covid work force, but experienced 73% of the job losses between February and May last year and for 73% (again) of job losses between May and August this year and there were 7.2% fewer of them in August than in February last year
- ... whereas there are 5.2% more employed managers and professionals than there were in February last year



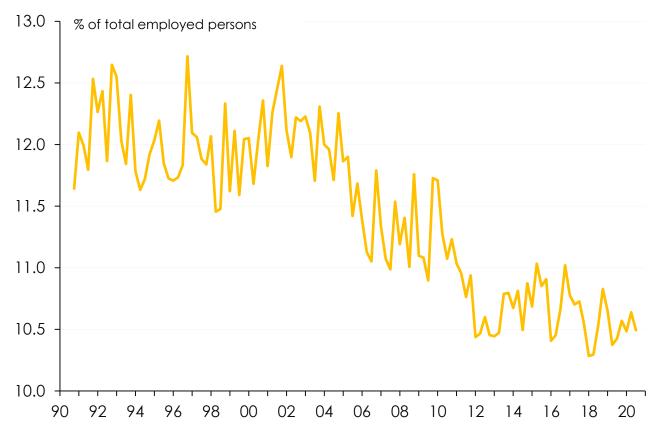
Contrary to popular belief neither casual jobs nor 'gig economy' jobs have become more commonplace during the past two decades

'Casual' employees (those without any kind of paid leave entitlement) as a pc of total



□ Casual employment increased significantly as a share of the total during the 1980s, 1990s and early 2000s but has not changed significantly since then – except for a sharp drop during the current recession

Owner-managers of unincorporated enterprises with no employees as a pc of total employment

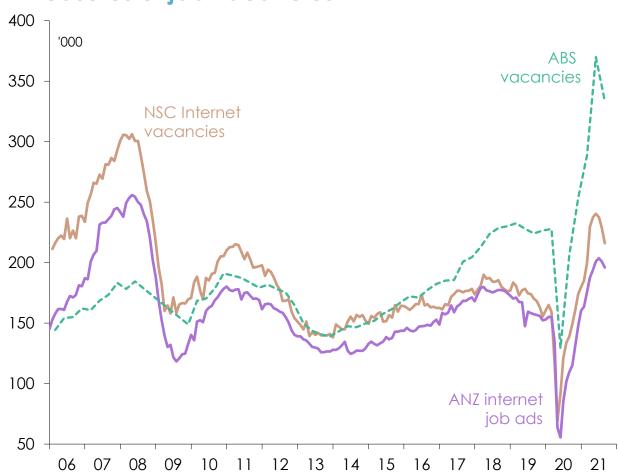


'Independent contractors' have actually declined as a share of the workforce since the early 2000s – had haven't increased during the current recession



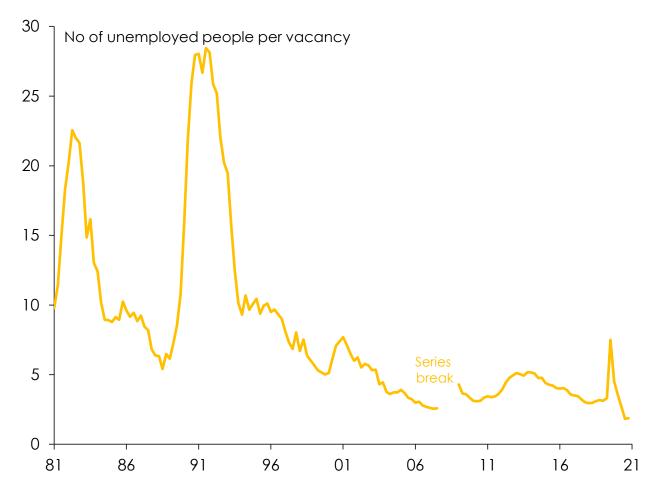
Job vacancies have rebounded swiftly from their recession lows – there are now fewer than two jobseekers for every vacancy, a record low

Measures of job vacancies



☐ Job vacancies have eased slightly during the NSW and Victorian lockdowns, but remain high by historical standards

Ratio of unemployed people to job vacancies



☐ The ratio of unemployed people to the number of job vacancies remain close to a record low in August

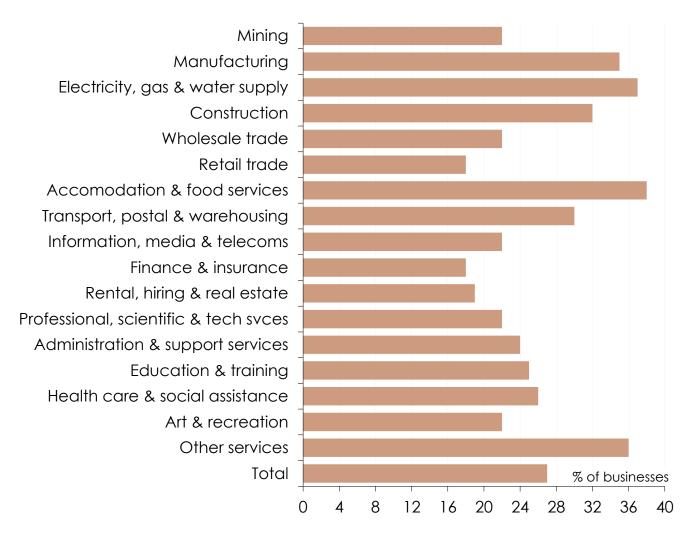


... but employers are encountering increasing difficulty filling those vacancies (at least partly because of the border closure)

Proportion of businesses nominating 'suitable labour as a constraint on output



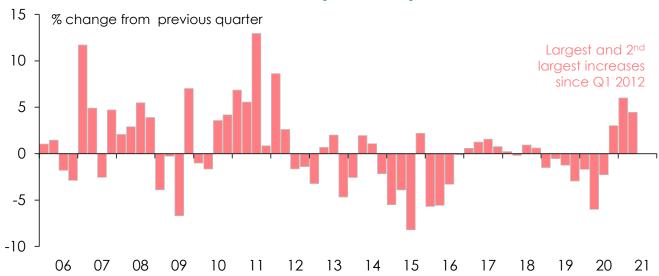
Businesses reporting difficulty finding suitable staff, by industry





Business capex increased by 4.4% in Q2, the third consecutive rise, this time led by utilities and services sectors

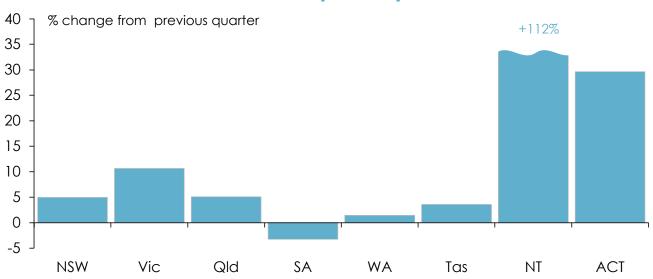
Real business new fixed capital expenditure



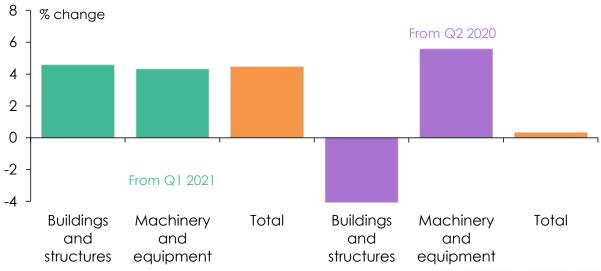
Real business new fixed capex, by industry, Q1



Real business new fixed capex, by state, Q2 2021



Real business new fixed capex, by asset, Q1

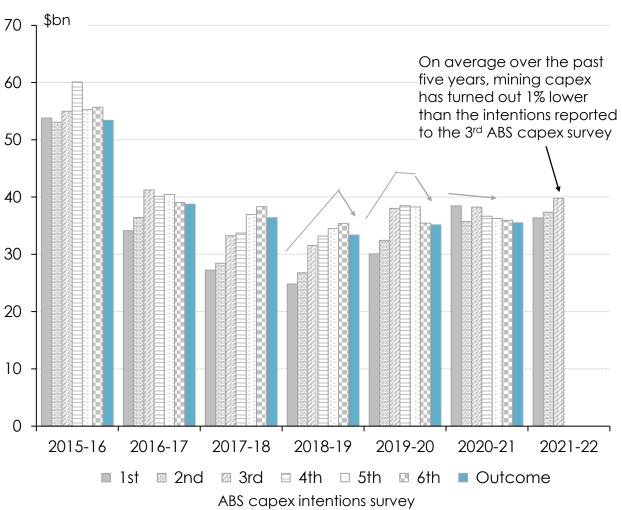


Note: the ABS Survey of New Capital Expenditure excludes the agriculture, forestry & fishing, and public administration & defence sectors, and superannuation funds. Source: ABS, <u>Private New Capital Expenditure and Expected Expenditure, Australia</u>; March quarter data will be released on 25th November. <u>Return to "What's New"</u>.

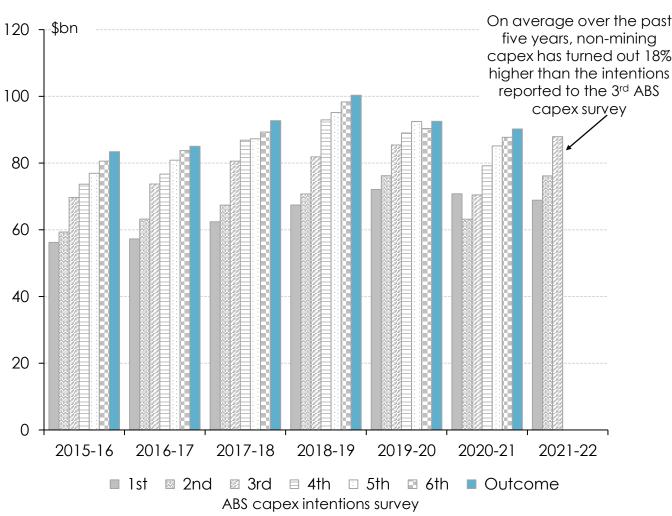


Business capex fell by 1.5% in 2021-22 and is expected to increase by $13\frac{1}{2}\%$ in 2021-22 according to the latest capex intentions survey

Capital expenditure intentions - mining



Capital expenditure intentions – non-mining

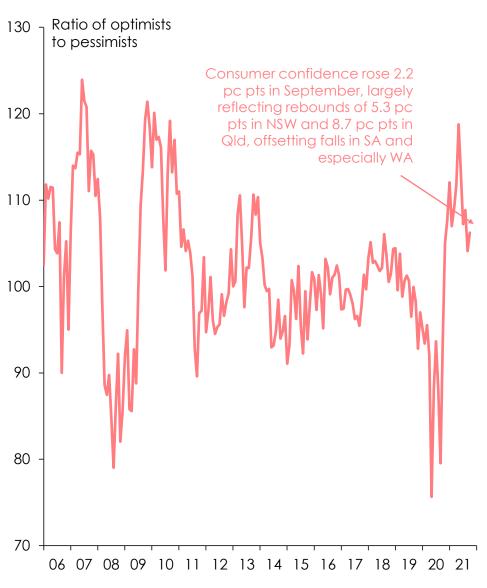


Note: The ABS conducts six surveys of business' capital expenditure intentions in respect of each financial year. The first is conducted in January & February prior to the commencement of the financial year, the second in May & June, the third in July & August of the financial year, the fourth in October & November, the fifth in January & February of the financial year, and the sixth in May & June. The outcome (actual capital expenditure in the financial year) is determined from the survey taken in July & August after the end of the financial year. From the December quarter 2020 the survey includes the education & training, and health care & social assistance sectors. The estimates shown above are in nominal terms.

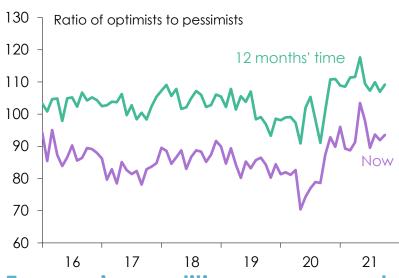


Consumer confidence rose 2.2 pc pts in September, with consumers remaining confident about both their own finances and the economy

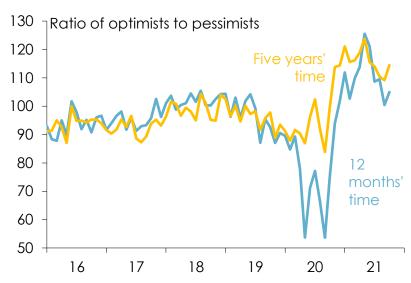
Consumer confidence index



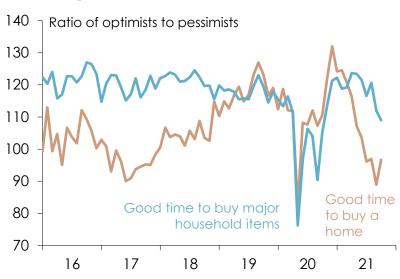
Household finances assessment



Economic conditions assessment



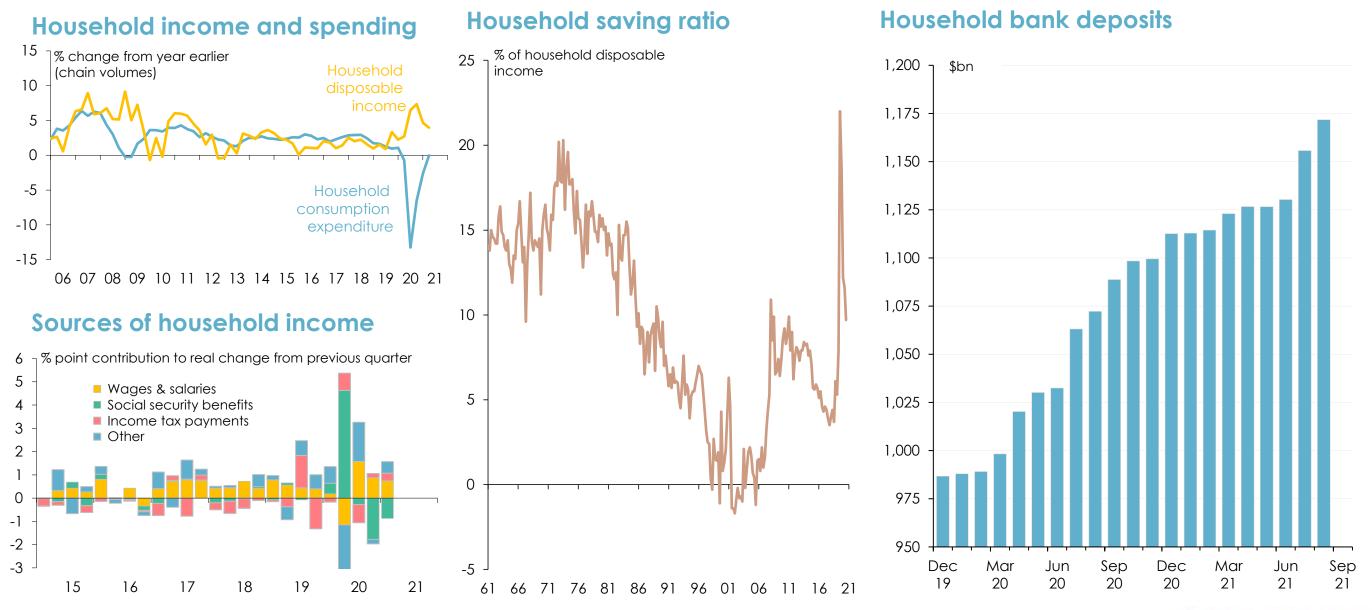
Buying conditions assessment



Confidence by housing tenure



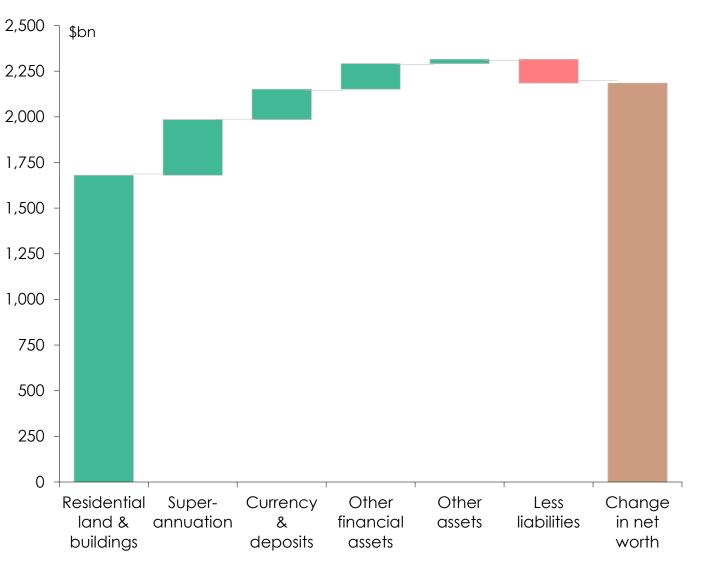
Household incomes have been supported by government payments, but spending has been curtailed, so households have lots of savings to spend



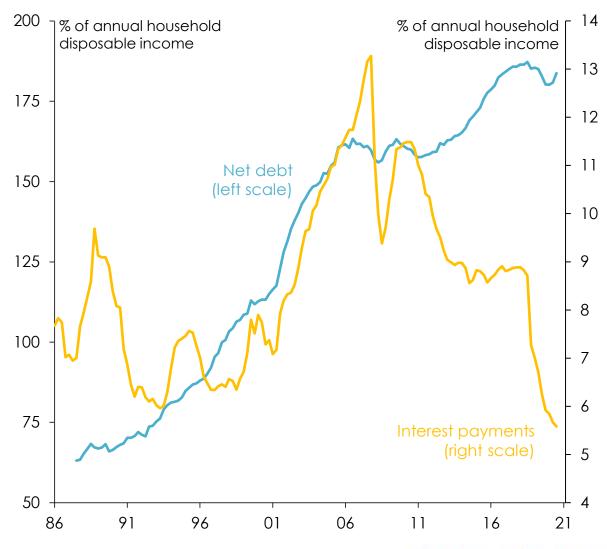


Household net worth has risen by \$2.2trn ($19\frac{1}{2}$ %) since the end of 2019, while debt service payments have fallen as a pc of income

Sources of gains in household net worth, Q4 2019 to Q2 2021

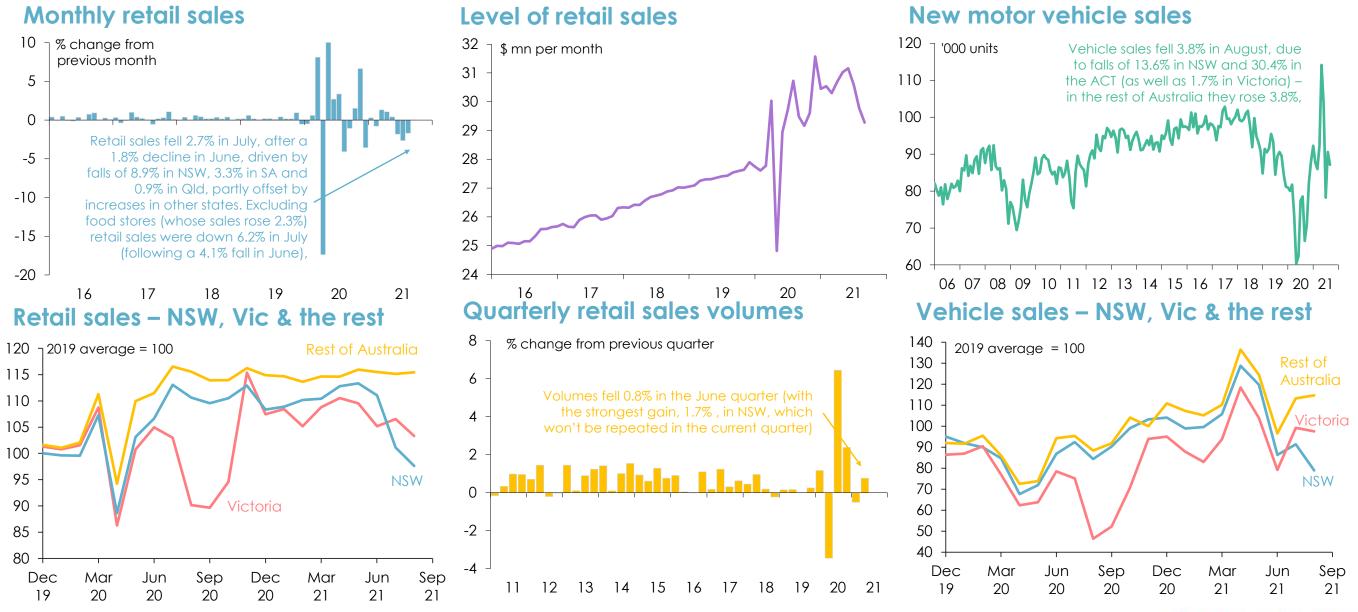


Household net debt and interest payments as a percentage of disposable income





Retail sales fell another 1.7% in August, the third decline in a row, with NSW down another 3.5% (13.9% since May), and Victoria down 3%

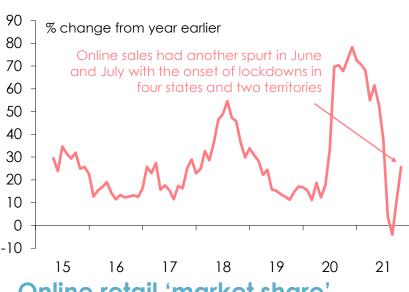


Note: see also <u>slide 104</u> for more detail on the composition of retail sales since the onset of the pandemic. Sources: ABS, <u>Retail Trade, Australia</u>; Federal Chamber of Automotive Industries <u>VFACTS</u> (seasonal adjustment of FCAI data by Corinna). September retail sales data will be released on 29th October; September motor vehicle sales data will be released in the second week of October, Return to "What's New".

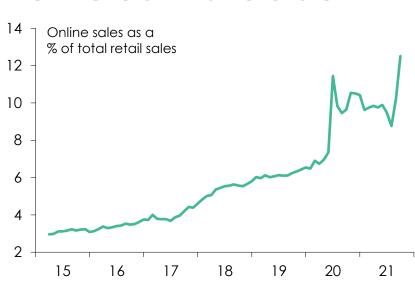


The most recent lockdowns have prompted a renewed surge in online spending and accelerated trends away from the use of cash

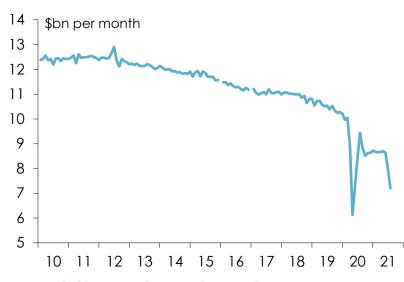
Growth in online retail sales



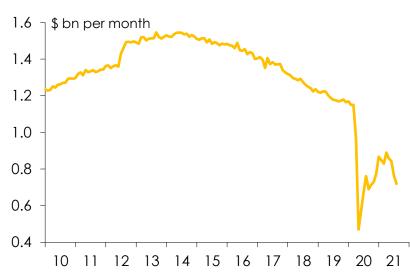
Online retail 'market share'



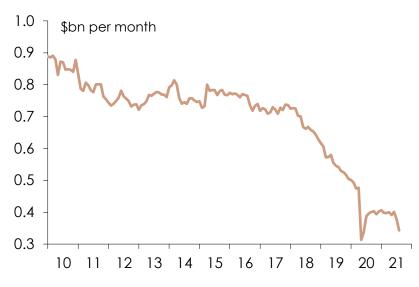
ATM cash withdrawals



Debit card cash-outs



Credit card cash advances



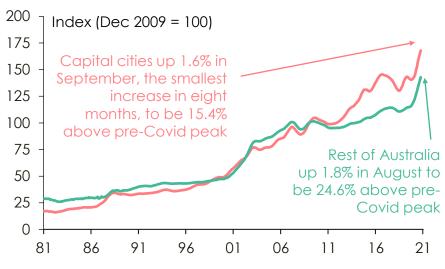
Direct entry payments



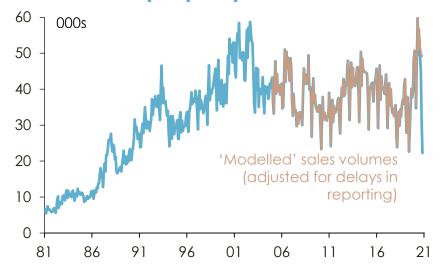


Property prices rose another 1.6% in September, the smallest increase since January, to be 18% above their pre-covid peak

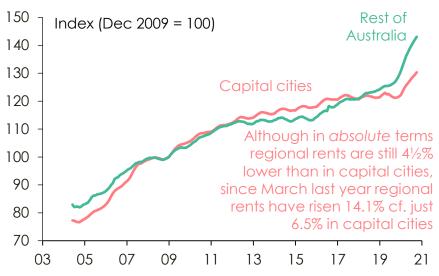
Residential property prices



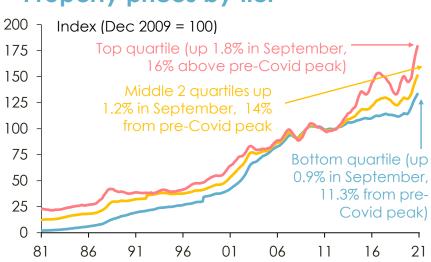
Residential property sales volumes



Residential rents



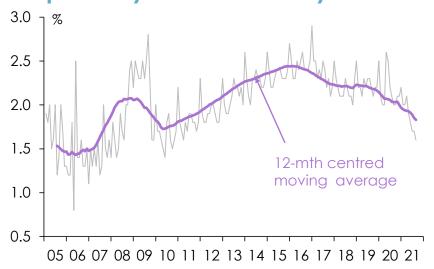
Property prices by tier



Vendor discounting



Capital city rental vacancy rates

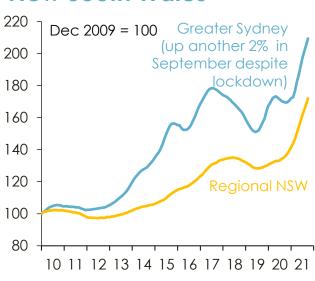


Note: The index of property prices measures the 'organic' change in underlying sales values by using a hedonic regression methodology that takes account of changes in the characteristics of properties being sold from month to month. Property price data shown here are seasonally adjusted. The index of residential rents uses a similar methodology to measure the 'organic' change in underlying rents. The 'modelled' sales volume estimates seek to account for delays in receiving information on transactions that have yet to settle (which can be more than six weeks after the contract date). Latest data are for September (except for vacancy rates which is August). October prices, sales volumes and rents data will be released on 1st November. Sources: CoreLogic; SQM Research, Return to "What's New".

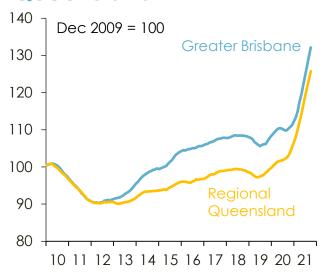


Prices in Adelaide, Canberra and Hobart, and regional NSW, Victoria, Qld and Tasmania are all more than 20% above their pre-pandemic peaks

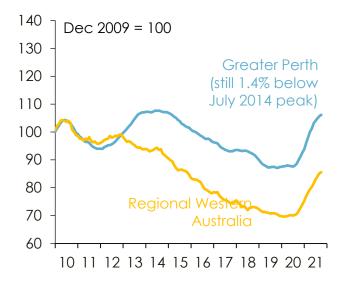
New South Wales



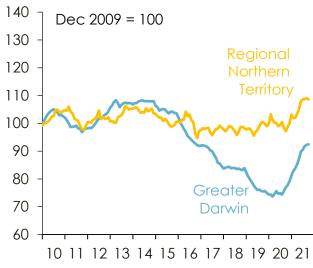
Queensland



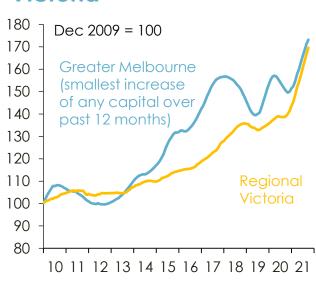
Western Australia



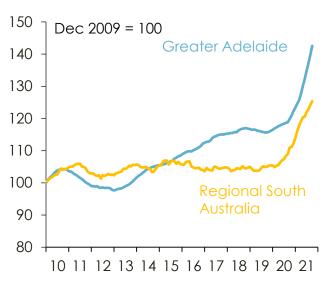
Northern Territory



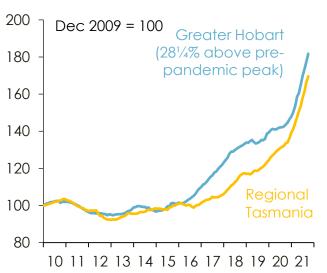
Victoria



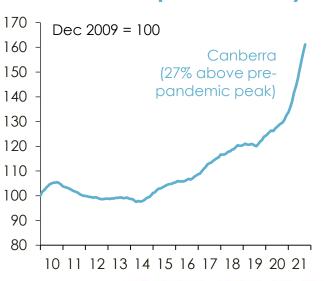
South Australia



Tasmania



Australian Capital Territory



Note: The index of property prices measures the 'organic' change in underlying sales values by using a hedonic regression methodology that takes account of changes in the characteristics of properties being sold from month to month. Property price data are seasonally adjusted. Latest data are September; October data will be released on 1st November. Source: CoreLogic. Return to "What's New".

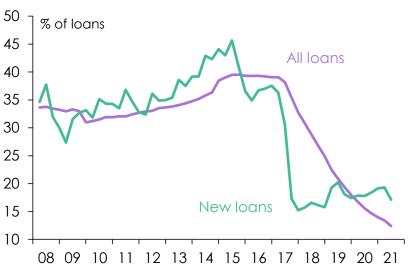


Lending to property investors and to existing home-owners 'trading up' has risen sharply in recent months while FHBs are again being 'squeezed out'

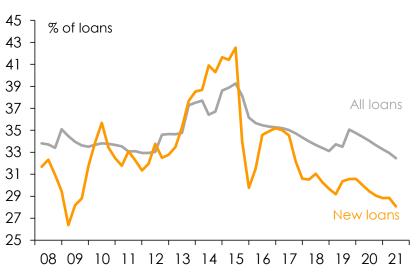
Housing finance commitments



Interest-only loans as pc of total



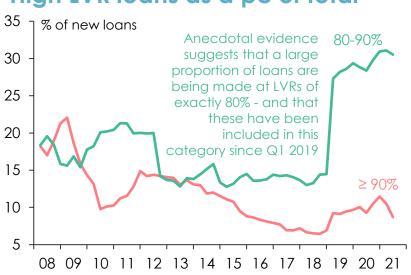
Loans to investors as a pc of total



Lending to first home buyers



High LVR loans as a pc of total



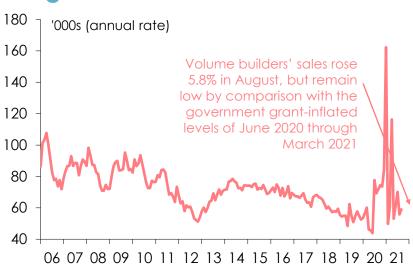
Non-performing mortgage loans



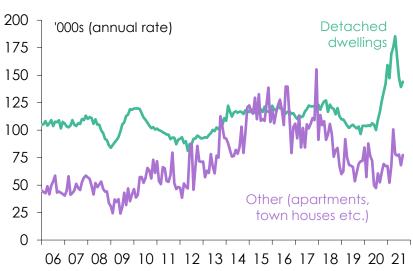


Housing approvals rose 6.8% in August, after four consecutive declines, although most of the rebound was in the volatile apartments component

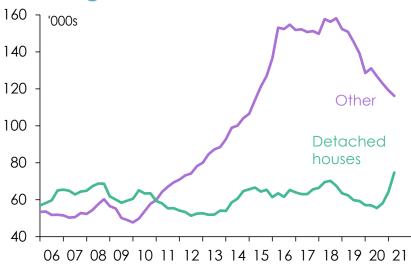
Large builders' new home sales



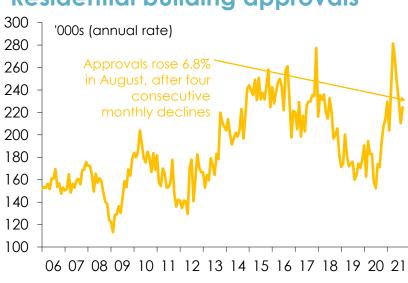
Building approvals, by type



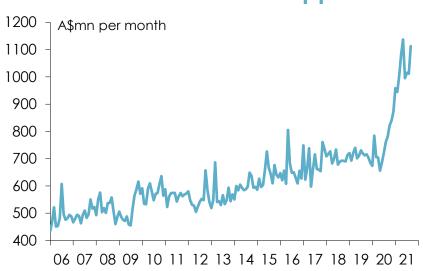
Dwellings under construction



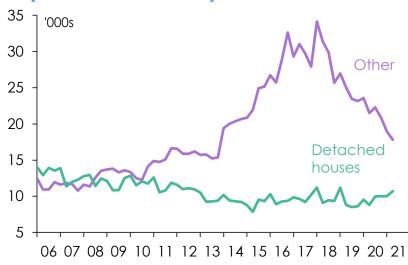
Residential building approvals



Alterations & additions approved



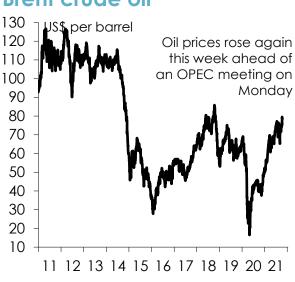
'Pipeline' of work yet to be started



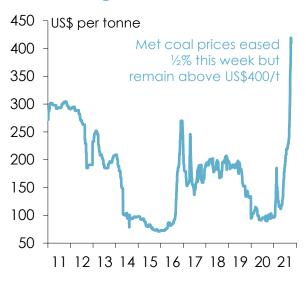


The iron ore price continued its rebound this week though is still almost 50% off its peak, while thermal coal prices again rose strongly

Brent crude oil



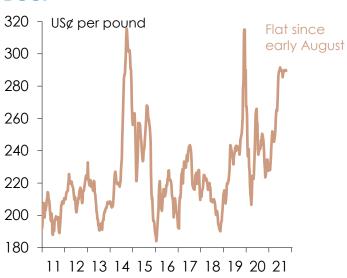
Metallurgical coal



Aluminium



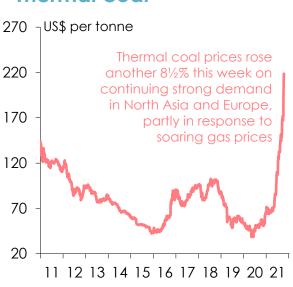
Beef



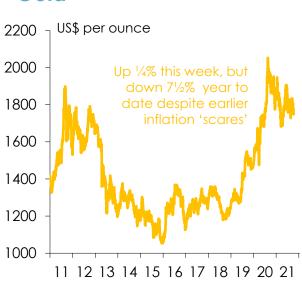
Iron ore



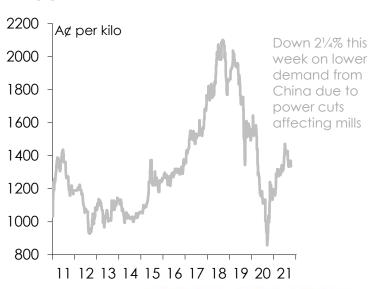
Thermal coal



Gold



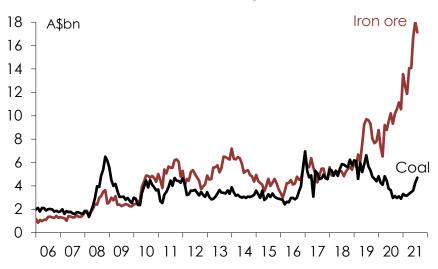
Wool



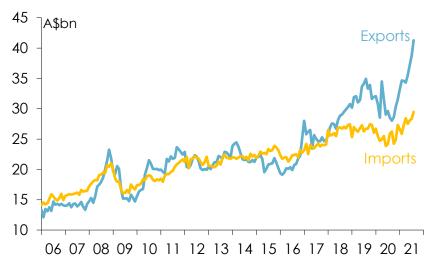


Australia registered another record monthly trade surplus of \$12bn in July, this time thanks to strong growth in LNG and thermal coal exports

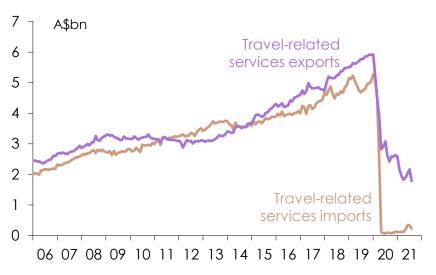
Iron ore and coal exports



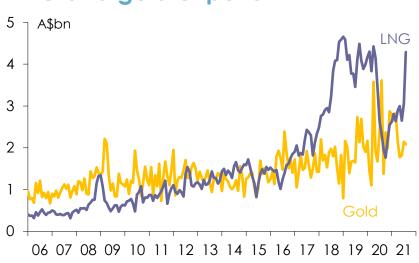
Merchandise exports and imports



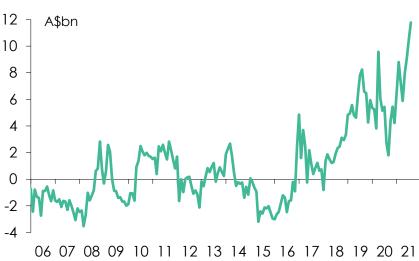
Tourism-related services trade



LNG and gold exports



Merchandise trade balance



Tourism services trade balance



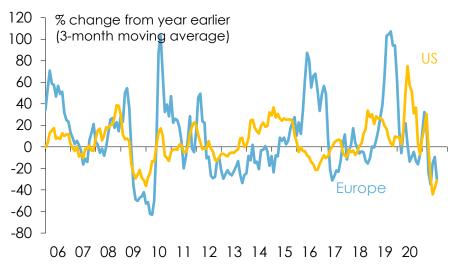


Australia continues to run a large trade surplus with China despite China's sanctions against a range of Australian exports, thanks to iron ore

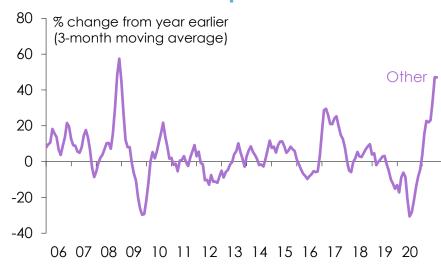
Merchandise exports – East Asia



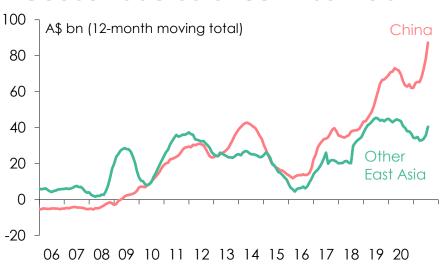
Merchandise exports – US & Europe



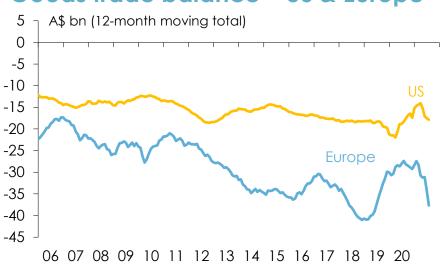
Merchandise exports – other



Goods trade balance – East Asia



Goods trade balance – US & Europe



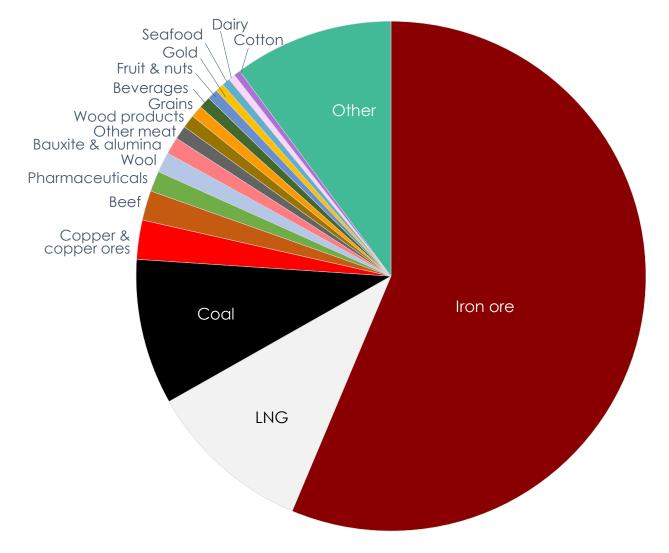
Goods trade balance – other





The bilateral relationship between Australia and its largest trading partner China seems unlikely to improve any time soon and could get worse

Australia's merchandise exports to China, 2019-20



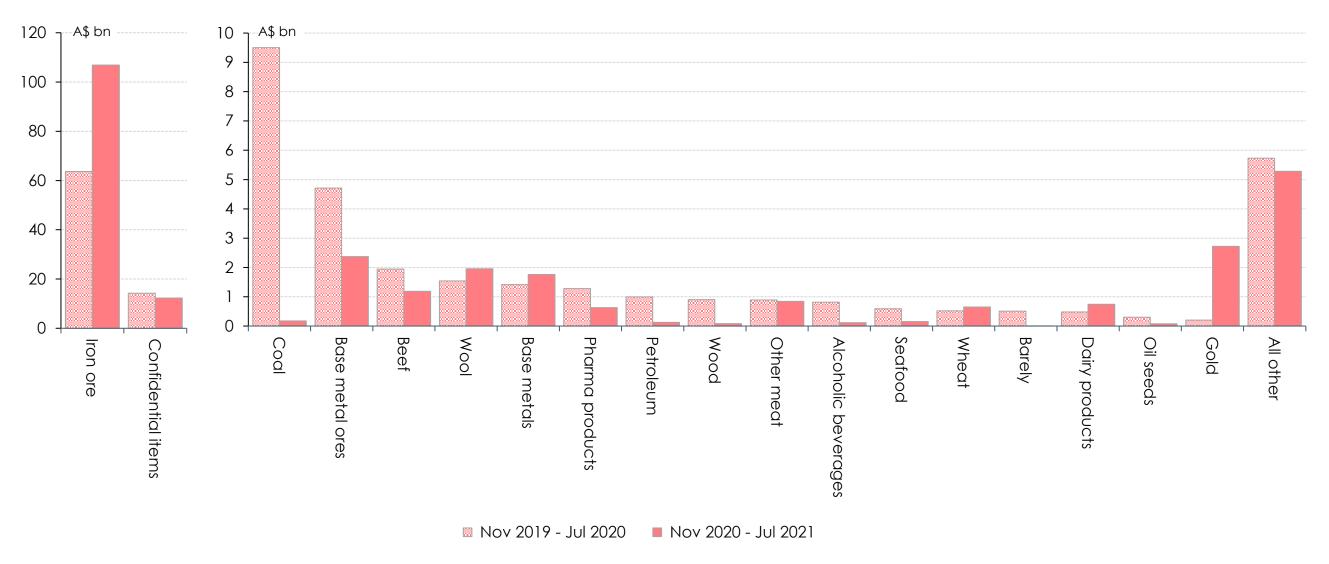
Note: 'Wood' includes wood products; 'dairy' includes milk, cream, butter & cheese; 'seafood' includes crustaceans, fish and processed seafood; 'other' includes confidential items.

Sources: Australian Department of Foreign Affairs & Trade, Trade Statistical Pivot Tables; Corinna, Return to "What's New".

- ☐ China accounted for 39½% of Australia's merchandise exports in FY 2019-20 (the largest proportion any country has since the mid-1950s when 36% of Australia's exports went to the UK)
 - of which iron ore & concentrates accounts for 56%
- ☐ China also accounted for 19% of Australia's services exports in CY 2019 of which tourism & education accounted for over 90%)
- China has no real alternatives to Australian iron ore in the near term but it has been progressively expanding the range of other Australian products subject to discriminatory tariffs, "customs inspections", quarantine issues or outright bans including wheat, wool, copper ores, sugar, lobsters, timber, wine and coal
 - Australia's <u>exports of these products</u> to China have dropped from about \$25bn in 2019 to an annualized rate of about \$5½bn since the sanctions were imposed although in many cases Australian exporters have been able to find alternative markets (see next slide)
- In July China's Foreign Ministry <u>openly acknowledged</u> that it was seeking to 'punish' Australia for "groundlessly accusing and smearing China and undermining China's core interests based on ideology" and "acting as a cat's paw" for the United States a view likely to intensify after last week's announcement of <u>a new defence pact</u> with the US and UK
 - Another looming flashpoint in the bilateral relationship may come from the forthcoming review (by the Defence Department) of the 2015 <u>lease of the Port of Darwin</u> to a Chinese company (<u>Landbridge</u>)

Iron ore, and to a much lesser extent gold, base metals, wool, wheat and dairy products are the only items Australia is selling more to China

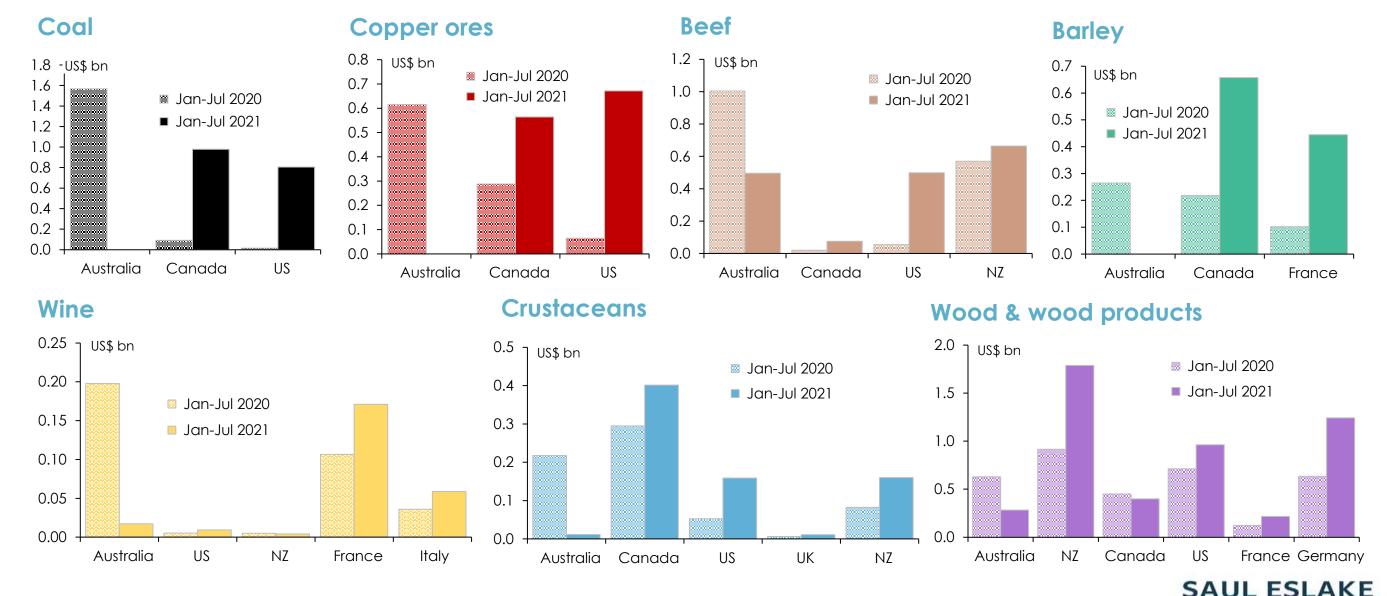
Australian exports to China, eight months to July 2021 compared with eight months to July 2020





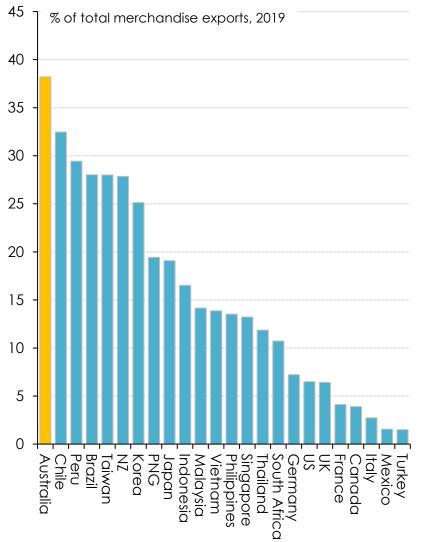
"With friends like these ..." – how Australia's 'allies' have been 'cutting our lunch' in trade with China

China's imports of selected products, by origin – January-July 2021 compared with January-July 2020

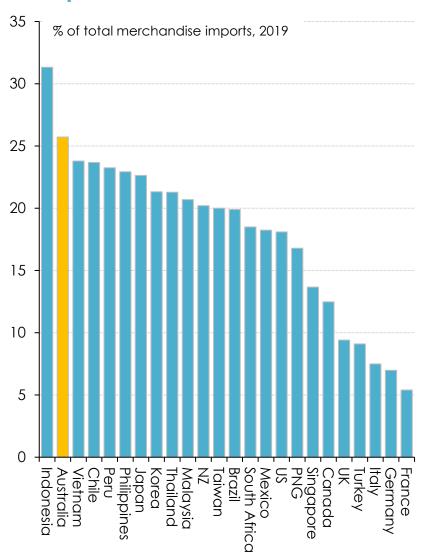


China can cause Australia economic pain because we're very dependent on it, and are one of the few countries with whom China runs a deficit

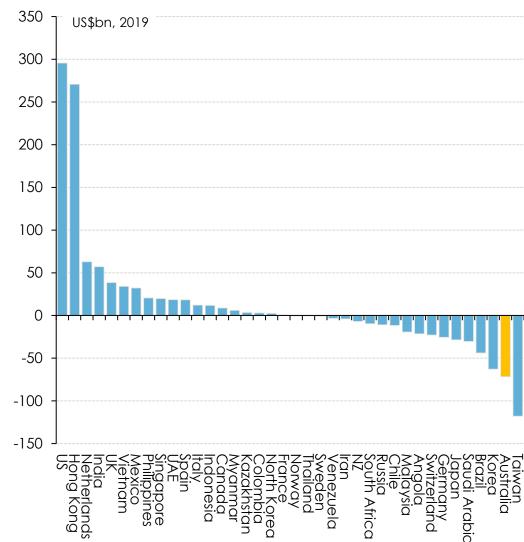
Merchandise exports to China as a pc of total



Merchandise imports from China as a pc of total



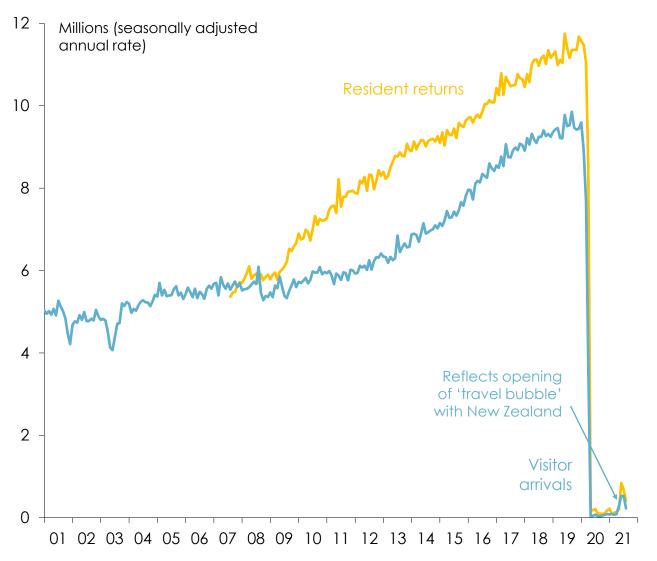
China's bilateral merchandise trade balances



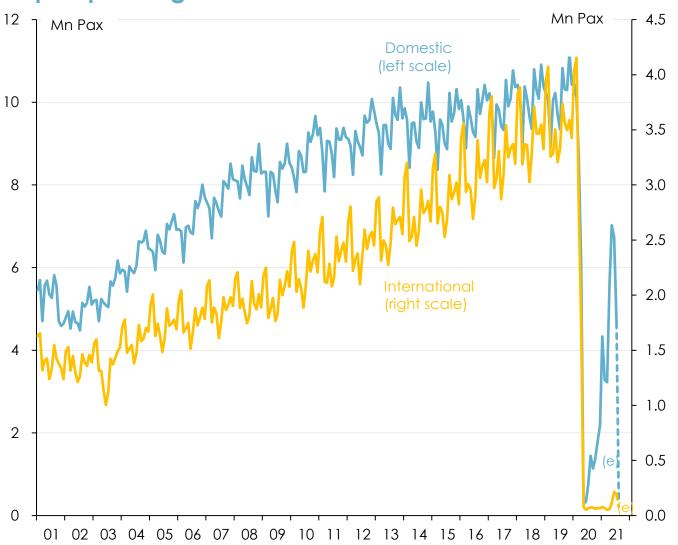


Domestic aviation picked up strongly between last November and May – but has since slumped with the lockdowns and tighter arrivals caps

Short-term visitor arrivals and resident returns



Airport passenger movements

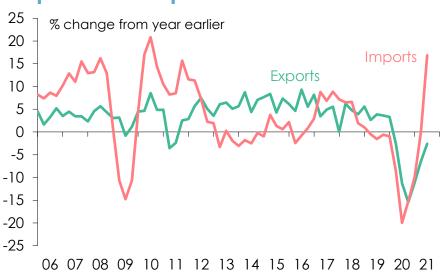


Note: The ABS has suspended publication of seasonally adjusted estimates of short-term visitor arrivals and resident returns, so published original estimates for April 2020 (and beyond) have been seasonally adjusted by Corinna using the same seasonal factors as for the corresponding month of 2019. Latest ABS data on arrivals and departures are for July; BITRE data on airport passenger movements are for June; July 2021 estimate(e) has been extrapolated from data for Sydney Airport published by Sydney Airport Ltd. Sources: ABS; Bureau of Industry, Transport and Regional Economics (BITRE); Sydney Airport Ltd; Corinna. Return to "What's New".

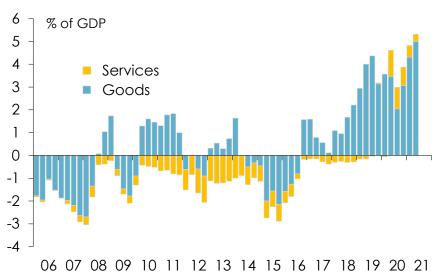


Australia recorded another record current account surplus in the June quarter, thanks to another large gain in export prices

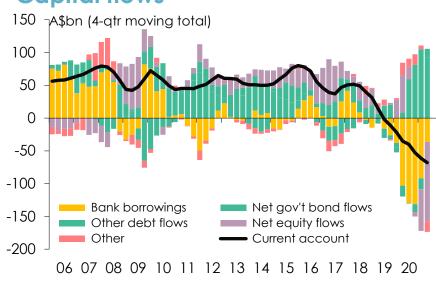
Export and import volumes



Goods & services trade balances



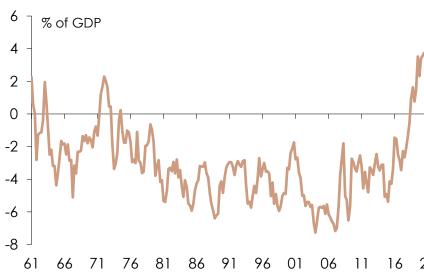
Capital flows



Export and import prices



Current account balance



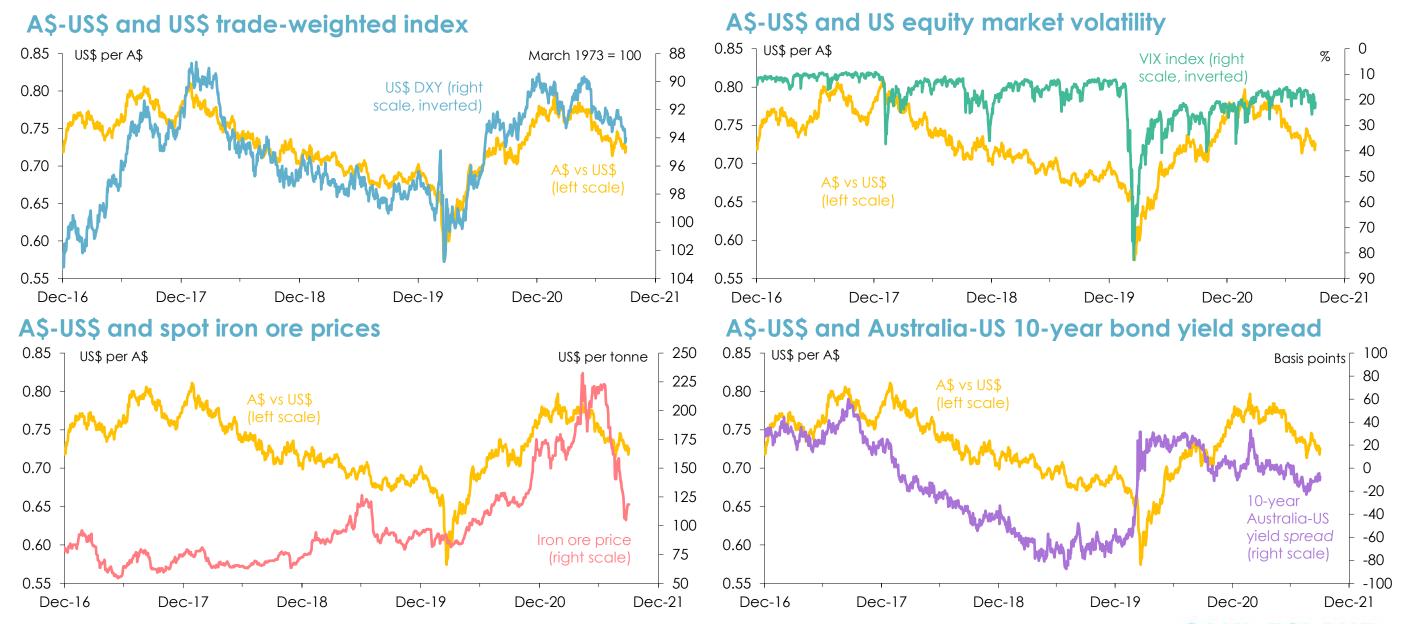
Net international investment position



Note: The chart of Australia's international capital flows shows inflows (eg borrowings from abroad) as a positive and outflows (eg repayments of debt, or purchases of foreign equity assets) as a negative. Likewise the chart of Australia's international investment position shows net foreign debt as a positive and net equity assets as a negative. Latest data are for the June quarter 2021; September quarter data will be released on 30th November. Source: ABS, <u>Balance of Payments and International Investment Position</u>, Australia. Return to "What's New".



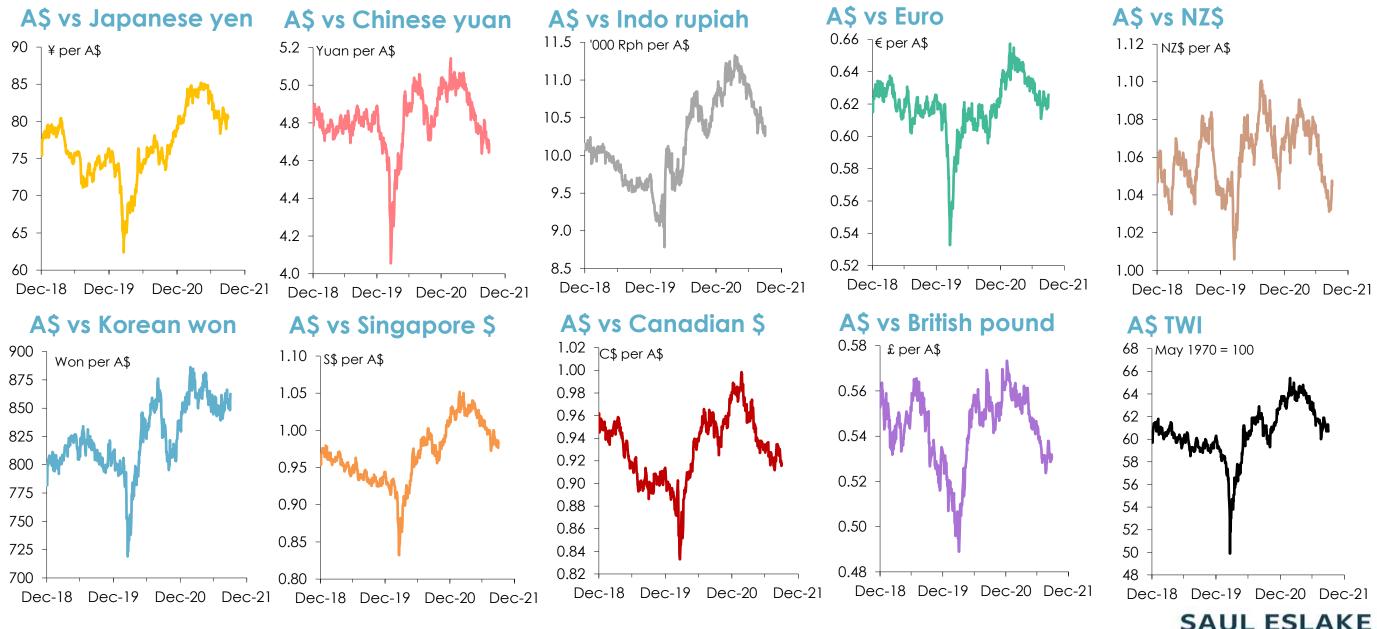
The A\$ stayed again remained below U\$73¢ this week with the partial recovery in the iron ore price offsetting the effect of a stronger U\$\$



Note: The DXY is an index of the value of the US dollar against 6 other currencies (the euro, yen, pound, Canadian dollar, Swedish krona and Swiss franc). The VIX index is a measure of the implied volatility of S&P500 options and is widely interpreted as an indicator of investor risk appetite or aversion. Source: Refinitiv Datastream. Data up 1st October. Return to "What's New".



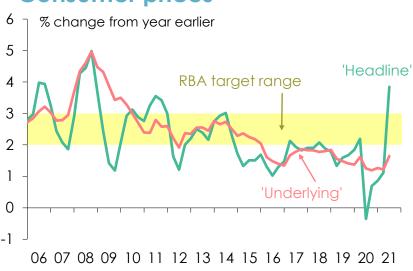
As a result, the A\$ rose against most 'third' currencies, including by around 1% vs the euro, pound, won and NZ\$ though it slipped marginally vs the C\$



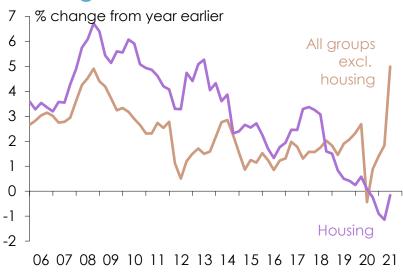
INDEPENDENT ECONOMICS

The 'headline' inflation rate shot up to 3.8% in Q2, but that was all due to 'base' effects – the underlying rate remains well below the RBA's target

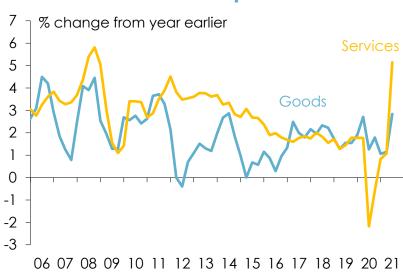
Consumer prices



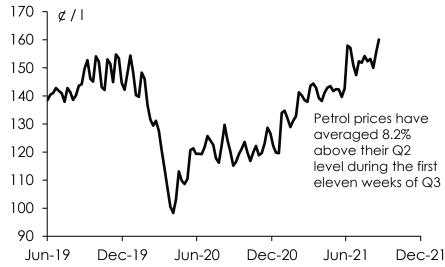
Housing costs



Goods vs services prices



Retail petrol prices



- □ The CPI rose a slightly higher-than-expected 0.8% in Q2 but because the 1.9% fall in Q2 last year (the result of child care being free for most of it, and a sharp fall in petrol prices), the annual 'headline' inflation rate jumped to 3.8%, its highest since Q3 2008
- 70% of the increase in the CPI in Q2 came from four components which together represent 13% of the CPI 'basket' petrol (up 6.6%, accounting for 29% of the rise), fruit & vegetables (up 5.2%), hospital and medical services (up 2.4%) and electricity charges (up 3.3%, reflecting the unwinding of temporary discounts in WA)
- Cash grants to first home buyers again turned what would have otherwise been a 1.9% increase in new dwelling purchase prices into a 0.1% decline
- The RBA's preferred measure of 'underlying' inflation (the trimmed mean) rose 0.5% in Q2 (cf. 0.4% in Q1), and by 1.6% from a year earlier the highest annual rate since! Last year, but still below the RBA's target for the 22nd quarter in a row SAUL ESLAKE

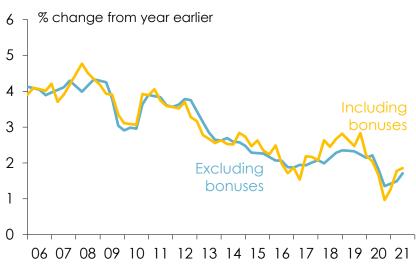
CORINNA ECONOMIC ADVISORY

INDEPENDENT ECONOMICS

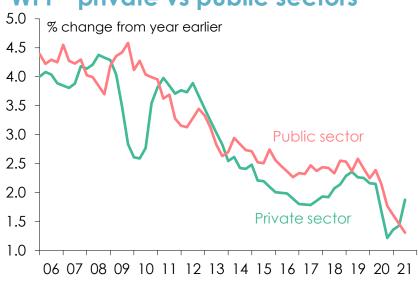
Note: 'Underlying' inflation is the average of the weighted median and trimmed mean CPIs. Wage price indices exclude bonuses. Sources: ABS, <u>Consumer Price Index</u>, <u>Australia</u>; <u>Australia</u> institute of <u>Petroleum</u>. The September quarter (Q3) CPI will be released on 27th October. <u>Return to "What's New"</u>.

Wages rose by only 0.4% in Q2, down from 0.6% in Q1 and Q4 last year, though 'base effects' from Q2 last year pushed the annual rate up to 1.7%

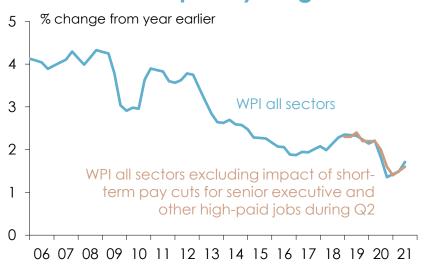
Wage price index – all sectors



WPI – private vs public sectors



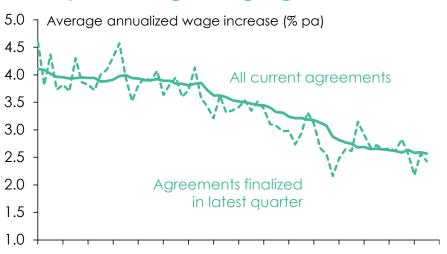
WPI excl. temporary wage cuts



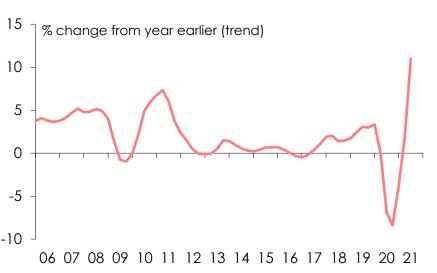
WPI and 'underlying' CPI inflation



Enterprise bargaining agreements



Unit labour costs





Australia's fiscal and monetary policy settings

The OECD's latest 'Economic Survey of Australia' makes some strong policy recommendations (but, sadly, they're unlikely to be implemented)

- □ The OECD's latest Economic Survey of Australia (the first in nearly three years) projects economic growth of 4% this year and 3.3% next year, with the unemployment rate falling from an average of 5.4% in 2021 to 4.9% in 2022 (assuming "strict containment measures remain in place in NSW and Victoria until midway through Q4")
- ☐ The OECD was generally supportive of Australian policy-makers' responses to the economic downturn
 - "the immediate fiscal response was one of the largest in the OECD" and "dwarfed the stimulus injected during the global financial crisis"
- ☐ The OECD makes a number of strong policy recommendations but which are unlikely to be implemented
 - the Government should "further increase the generosity of unemployment benefits" (which it says are the lowest, relative to average wages, in the OECD) and "consider indexing further increases to average wage growth"
 - "now is an appropriate time for a review of Australia's monetary policy framework" which should be "broad in scope"
 - APRA should "continue to develop" its macro-prudential policy "toolkit" (noting that unlike most OECD countries Australia does not have a regulatory maximum LVR ratio)
 - the "entire value of the family home or that portion above a certain threshold should be included in the means test for pension eligibility"
 - the "contribution of the GST to the overall tax mix" should be increased; and "some of the concessions for the taxation of private pensions, particularly those that favour higher income earners" should be reduced; the capital gains tax discount should be "reduced"; and stamp duty on land transfers should be replaced with "a recurrent land tax"
 - the "distortionary impact of the current two-tier corporate tax system" (with the lower rate for "small" businesses) should be "investigated" (and if there are to be any preferences they should be for "young businesses in innovative sectors"
 - Australia's occupational licencing systems should be reformed with "better coordination between states"
 - Australia needs a "Long-term Emissions Reduction Strategy that defines clear goals and corresponding policy measures" to achieve net zero emissions by 2050, and "the least cost approach to meeting these targets would involve an economy-wide carbon price"

Return to "What's New".

... and the OECD's recommendations were backed up by the IMF

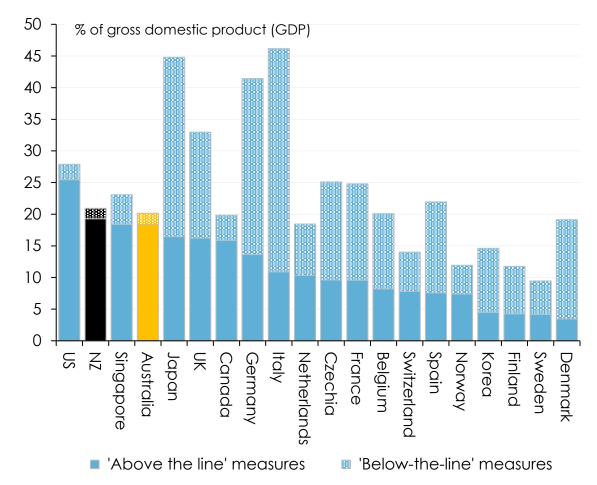
- The OECD's recommendations were this week endorsed by the IMF in its annual 'Article IV' consultation with Australia
 The IMF recommends that fiscal policy should "continue to support vulnerable households and viable businesses", and that monetary policy should remain "data-dependent and nimble", with the timing and pace of "policy normalization" being calibrated in a "commensurate with the recovery in a gradual and well-sequenced manner"
 The IMF urges that "macro-prudential policy should be tightened to address gradually rising financial stability risks (in particular, portfolio restrictions on debt-to-income and loan-to-valuation ratios)
 It recommended a number of worthwhile (but hardly new) measures to improve housing affordability

 it advocates "supply-side reforms including more efficient planning, zoning and better infrastructure" (including "financial")
 - it advocates "supply-side reforms including more efficient planning, zoning and better infrastructure" (including "financial incentives to local governments to streamline zoning regulations") and that governments should "expand social housing"
 - and it supports "transitioning from a housing transfer stamp duty to a general land tax" and "reducing structural incentives for leveraged investment by households ... in residential real estate"
- ☐ The IMF urges "an integrated framework for climate change policies"
 - "broad-based carbon pricing, along with measures to mitigate transition risks for impacted industries and regions, would be the most effective way to achieve emissions reductions"
- ☐ And it recommends a range of other structural reforms
 - "there is scope to ease the regulatory burden faced by businesses ... through continued reforms to digitize business-government interactions" and to "widen the scope for inter-jurisdictional recognition of occupational licences"
 - "continued reforms in the education sector" (without any specifics) "can improve education outcomes and ensure equal opportunities"
 - "scope remains to ease the administrative burden" associated with R&D tax incentives and to "scale up government R&D spending"



The Government's fiscal policy response to Covid-19 now exceeds 18% of GDP – and more support has been announced in recent weeks

Fiscal policy responses to Covid-19 – selected 'advanced economies



Note: 'Above the line' measures comprise additional or accelerated spending and deferred or foregone revenue. 'Below the line' measures comprise equity injections, loans, asset purchases and debt assumptions, but do not include loan guarantees or other contingent liabilities. 'DMs' means 'developed markets' (or 'advanced economies'). Data includes measures announced up until 5th June 2021. Source: IMF, <u>Fiscal Monitor</u> <u>Database of Country Fiscal Measures in Response to the COVID-19 Pandemic</u>, July 2021. Return to "What's New".

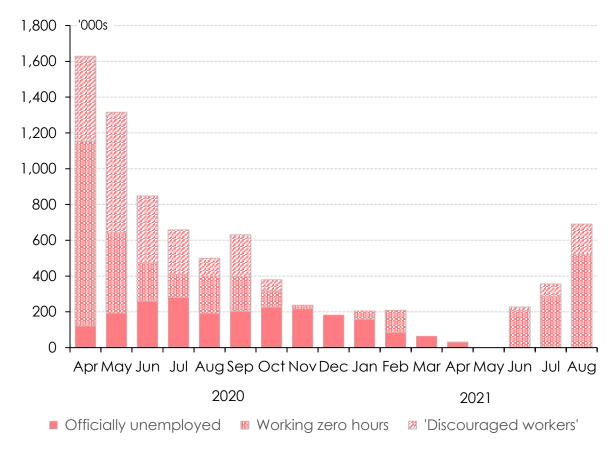
- □ Policy measures announced by the Australian and state/territory governments in response to Covid-19 (up to March this year) have been equivalent to more than 18% of GDP – the fourth highest of any 'advanced' economy, according to new IMF estimates released last month
- ☐ The Federal Government has 'beefed up' its support for households and businesses adversely affected by lockdowns
 - in NSW, businesses with an annual turnover of less than \$200mn and whose revenue has dropped by more than 30% will receive 40% of their payroll, up to a maximum of \$100,000 a week provided they don't sack any employees (or \$1000 a week for businesses with no employees)
 - income support for workers who've lose more than 20 hours a week will rise from \$600 to \$750 per week (or from \$375 to \$450 for those who've lost between eight and 20 hours)
 - a \$200 per week payment will be made to those receiving income support payments who lose more than 8 hours per week
- These payments will cost the Federal and NSW Governments \$750mn and \$325mn a week respectively, while the Federal and Victorian Governments will also provide \$400mn of support for businesses in that state

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Government support payments for those affected by lockdowns will be phased out after vaccination rates pass 70%

Number of people displaced by lockdowns (by comparison with March 2020)



Note: Numbers depicted in the above chart are derived as the difference between the number of people in each category in the months shown and the number in those categories in March 2020. People 'working zero hours' excludes those doing so because they are on annual or other types of leave. 'Discouraged workers' are those who have dropped out of the labour force as indicated by the difference in the labour force participation rate between the month shown and March 2020, during 2020, or the month prior to lockdowns in June and July 2021. Source: ABS, <u>Labour Force, Australia</u>, July 2021; Commonwealth Department of Health, <u>Covid-19 Vaccine Roll-out</u>, 2nd October 2021; Corinna. Return to "What's New".

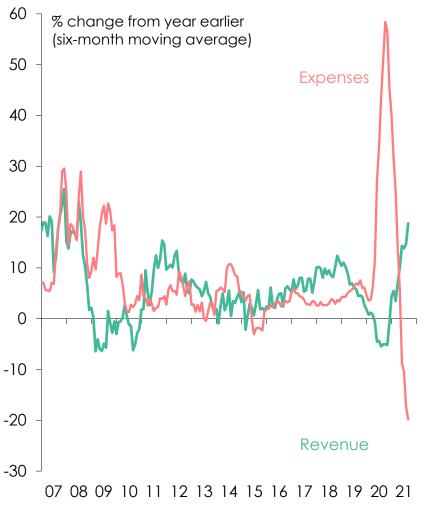
- Since the beginning of June the Federal Government has paid out \$9.62bn in Covid-19 disaster payments to 2.07 mn workers unable to earn income due to public health orders or other Covid-related restrictions
 - of this amount, \$6.3bn has been to people in NSW, \$2.8bn to Victoria, \$253mn to Qld and \$261mn to the ACT
- ☐ The Federal Government has also paid out \$195.8mn in \$200 income support payments to 168,000 people already on income support payments who have lost 8 hours or more of part-time work due to lockdowns, and \$107mn in pandemic leave disaster payments to 68,000 people who have been required to self-isolate or quarantine, or who are caring for someone with Covid-19
- State Governments have also made payments to businesses and individuals affected by lockdowns or requirements to isolate
- The Government this week <u>announced</u> that it would cease making these payments automatically in states where 70% of the over-16 population have been fully vaccinated, and that once more than 80% have been fully vaccinated, payments will be 'tapered' over a 3-week period

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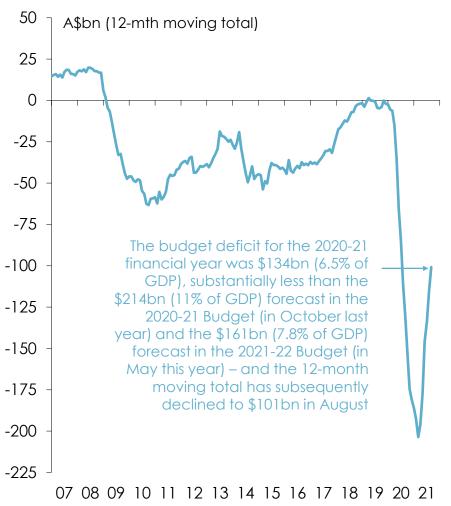
CORINNA ECONOMIC ADVISORY INDEPENDENT ECONOMICS

The budget deficit for 2020-21 was \$80bn less than originally anticipated, and \$27bn less than estimated almost five months ago

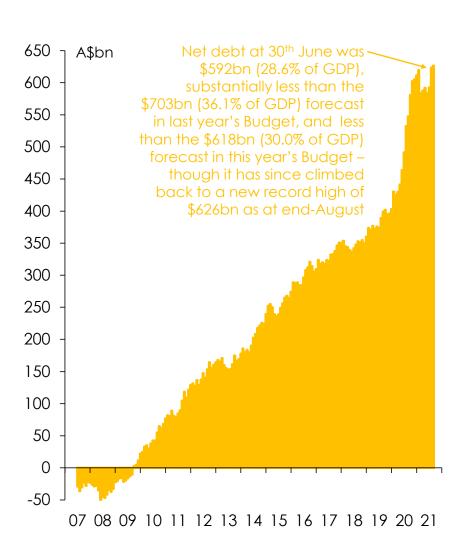
Australian Government revenue and expenses



Australian Government 'underlying' cash balance



Australian Government net debt

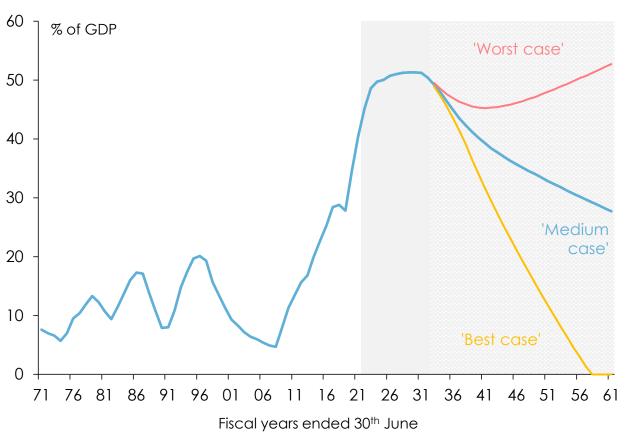


Note: Revenue and expenses are accrual accounting items. The 'underlying' cash balance is (cash) receipts minus payments, excluding transactions in financial assets for policy purposes and net earnings of the Future Fund. Net debt is total interest-bearing liabilities (government securities, deposits, loans and other borrowing) minus cash and deposits, advances paid, and (interest-bearing) loans, placements and investments. Source: Australian Government, Final Budget Outcome 2020-21; Department of Finance, Commonwealth Monthly Financial Statements. Return to "What's New".

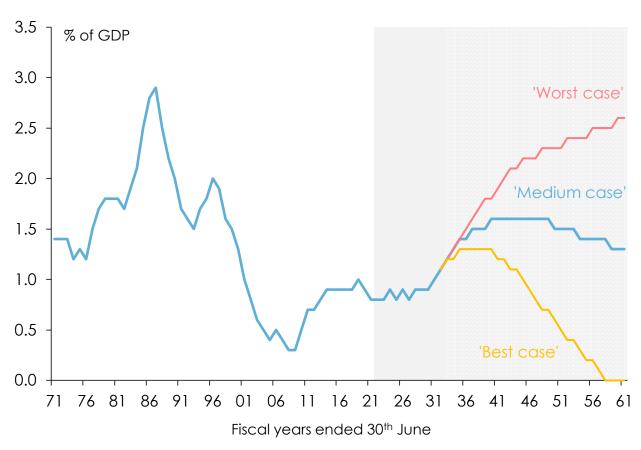


Analysis by the Parliamentary Budget Office suggests the debt which the Government has incurred <u>is</u> sustainable under a wide range of scenarios

PBO projections of Commonwealth Government gross debt



PBO projections of Commonwealth Government interest payments

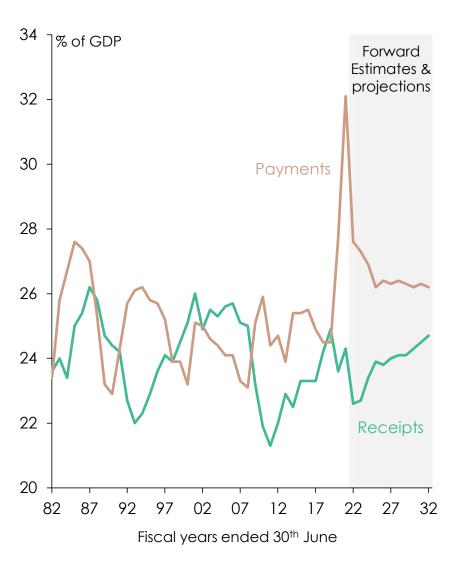


INDEPENDENT ECONOMICS

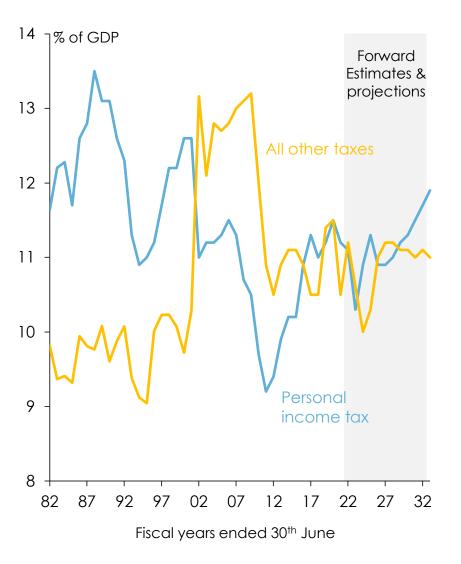
- □ The PBO derived projections of gross debt and interest payments over the next 40 years based on 27 combinations of different assumptions about economic growth, interest rates and the budget balance
- Under all of these scenarios (even the 'worst case'), both total debt and debt-servicing costs remain within the bounds of historical experience
 SAUL ESLAKE

Australia's problem is that the Government will be relying solely on rising personal income tax collections to keep the deficit on a declining path

Commonwealth Government receipts and payments



Personal income tax and other tax receipts as pc of GDP



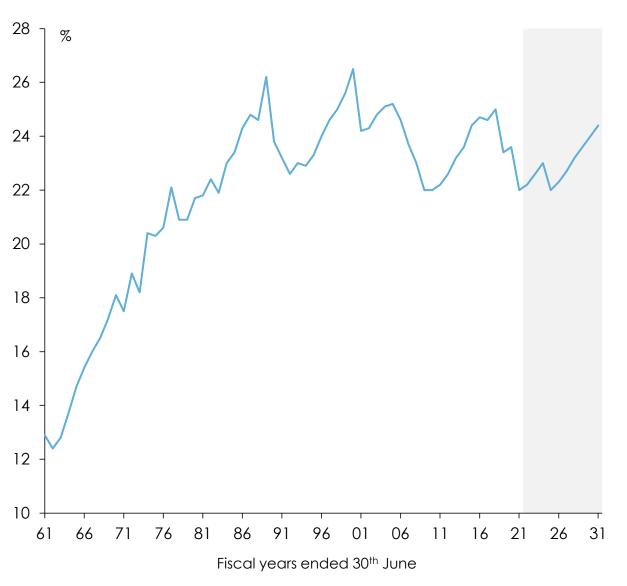
Personal income tax receipts as a pc of total tax receipts



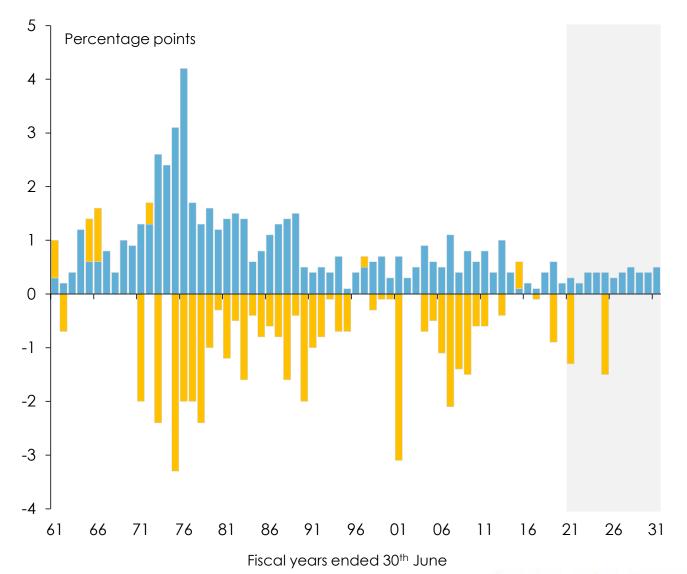


And the prospective increase in personal income tax collections isn't the result of a conscious policy decision, but is rather due to 'bracket creep'

Average personal income tax rate



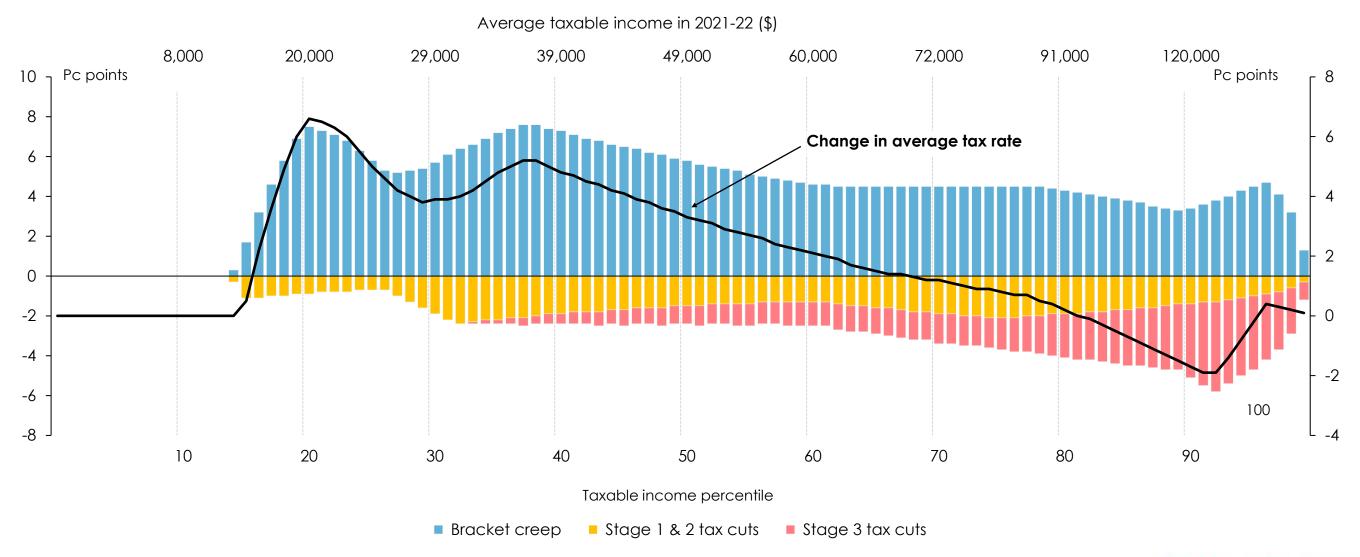
Source of changes in average personal income tax rates





'Bracket creep' disproportionately impacts taxpayers with incomes of between \$20,000 and \$50,000 per annum

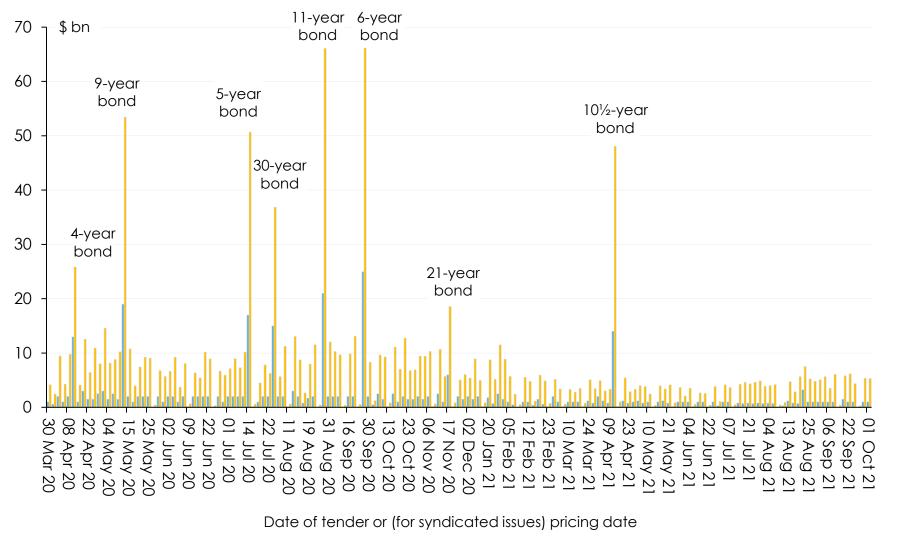
Change in average tax rates between 2021-22 and 2031-32 by taxable income percentile





The Government continues to find a ready appetite for its bond issuance – so far this fiscal year it's received \$123bn of bids for \$26bn of bonds

Australian government bond issuance since March 2020



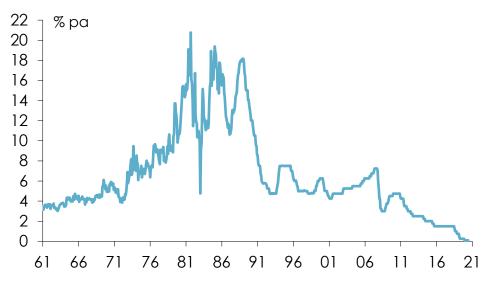
Amount of bonds offered
Amount of bids received

- Office of Financial Management has issued almost \$323bn of Treasury bonds based on the volume of bids received it could have borrowed more than \$1.2 trn with yields at most 4 bp (0.04 of a pc point) above the highest yields actually accepted
- The AOFM issued another \$2.1bn of bonds, this week, \$1bn of 10-year bonds at an average yield of 1.50%, \$1bn of 7-year bonds at an average yield of 1.14%, and \$100mn of 9-year indexed bonds at an average yield of -0.65%
- □ The AOFM almost \$11bn bn of bids for these bonds
- So far this financial year, the AOFM has received bids totalling more than \$123bn for the \$26bn of bonds it has offered for sale − a 'coverage ratio' of 4.7 times, cf. 3¾ times during the 2020-21 financial year

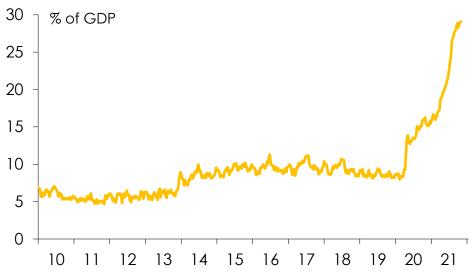


The RBA Board meets again on Tuesday though no policy changes are expected – but some 'macro-prudential' controls may be in the offing

Reserve Bank cash rate



Reserve Bank assets as a pc of GDP



Source: Reserve Bank of Australia, <u>Statistical Tables</u> A3 and F1.1. See <u>slide 96</u> for more detail on the RBA's forecasts. <u>Return to "What's New"</u>.

- ☐ At its September meeting, the RBA Board left interest rates 'on hold' (as universally expected) but <u>confirmed</u> its previously-stated intention to 'taper' its bond purchase program
 - the RBA will now purchase bonds at a rate of \$4bn a week, down from \$5bn
 - but instead of terminating in November, the program will now continue until "at least mid February 2022"
- □ The decision to proceed with the previously-flagged 'tapering' of its bond purchase program, despite the "Delta outbreak and the associated restrictions on activity" as a result of which "GDP is expected to decline materially in the September quarter" reflects a recognition that the most effective policy response is coming from fiscal policy, and there's not much that monetary policy can realistically add
- But the decision to extend the period of bond purchases by at least three months is in response to the RBA's judgements that "there is ... uncertainty about the timing" of the expected bounce-back in the economy when restrictions are eased and that the bounce-back, when it does occur, "is likely to be slower than that earlier in the year"
- ☐ The RBA also re-iterated that its 'central scenario' is that the conditions for an increase in the cash rate "will not be met before 2024"
- Treasurer Josh Frydenberg this week <u>signalled</u> that the financial regulator APRA may soon impose limits on high-LVR or high debt-to-income ratio mortgage lending, as recently recommended by both the OECD and the IMF (<u>slides 143</u>-144)

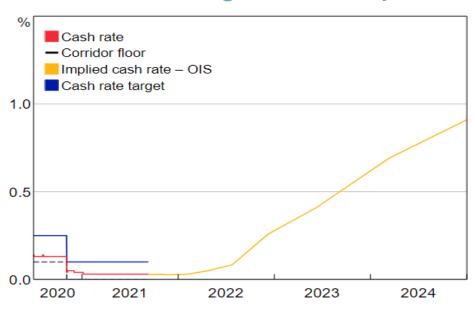
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RBA Governor Philip Lowe 'doubled down' on his 'no rate rise until 2024' guidance

- ☐ In a <u>speech</u> last week RBA Governor Philip Lowe firmly re-emphasized his judgement that the conditions for a lift in the RBA's official cash rate "will not be met before 2024"
 - the current delta outbreak has "delayed but not derailed" the Australian economy's recovery
 - the economy is likely to contract by "at least 2%" (and "possibly significantly larger" than that) in the current quarter, but the RBA expects the economy to "be growing again in the December quarter" and to "be back on its pre-delta track by the second half of next year"
- ☐ The Governor sought to set the decisions made at this month's RBA Board meeting in this context

"given that the recovery has been delayed" – which "means that it will take longer to achieve [the RBA's] inflation goals", it was "appropriate [to] delay any consideration of a further taper in [the Bank's] bond purchases until next year" September and December quarters"

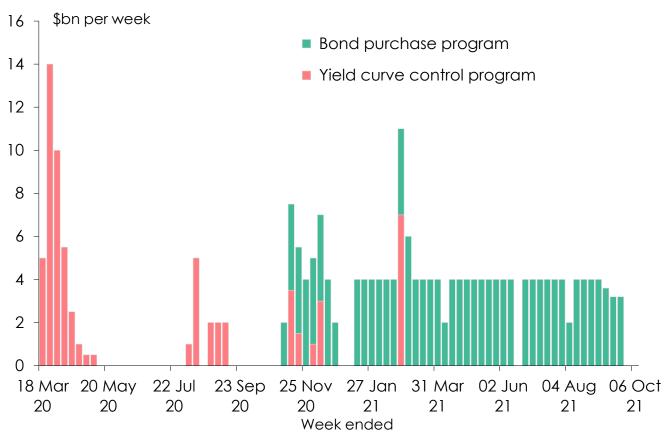
Cash and overnight index swap rates



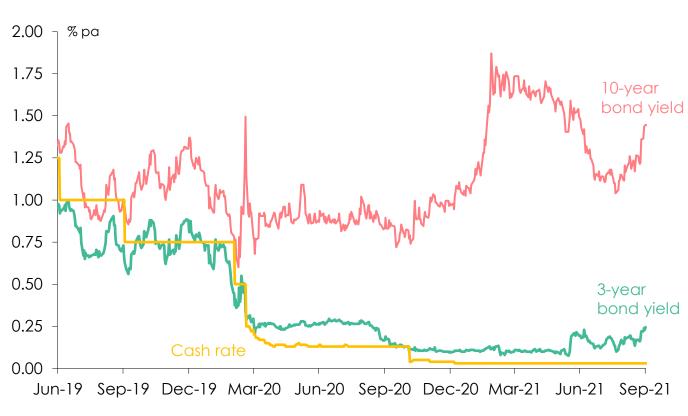
- in the Bank's view, "fiscal policy is the more effective instrument in responding to the delta outbreak" because "fiscal policy can use the public balance sheet to offset the hit to private incomes" whereas "monetary policy works mainly on the demand side ... with a lag" so that "realistically, there is little [the RBA] can do to offset the hit to demand in the September and December quarters"
- ☐ The Governor explicitly 'pushed back' against current market pricing ...
 - current OIS pricing of a cash rate of 0.60% at end- w2023 and close to 1.0% at end-2024 was "difficult to reconcile" with the RBA's reading of the economy
 - it was "difficult to understand why rate rises are being priced in next year or early 2023"
- ☐ ... and downplayed any connection with other central banks' moves
 - "while policy rates might be increased in other countries over this timeframe, [Australia's] wage and inflation experience is quite different"

Australian bond yields continued to rise this week as global markets move to price in Fed tapering later this year and US rate hikes next year

RBA open market bond purchases



Interest rates



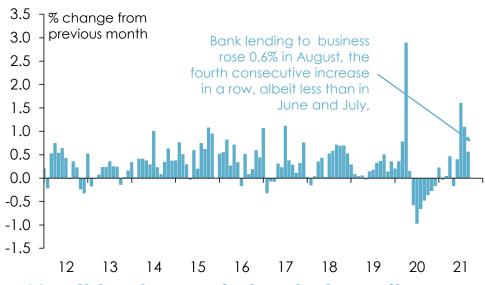
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- In line with the decision at last month's Board meeting (<u>slide 153</u>), the RBA again bought \$4bn of bonds this week, down from \$5bn in most weeks since the Bond Purchase Program commenced in November last year, bringing its total bond purchases (including those under its now-inactive 3-year yield target program) to \$293.5bn
- □ Bond yields rose further this week, the 10-year yield finishing 9 bp higher at 1.45% (the highest since early July), in line with overseas movements which were in response to growing expectations of 'tapering' by the US Federal Reserve after last month's FOMC meeting (slide 36)

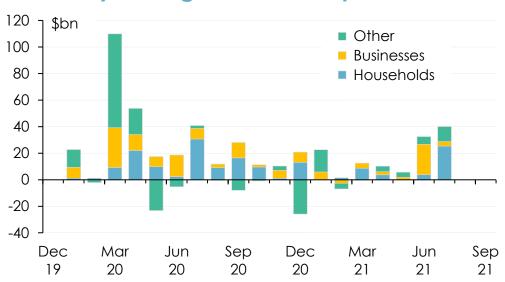
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Banks have played an important role in assisting borrowers cope with shutdowns, and have been swamped with deposits

Business credit outstanding



Monthly change in bank deposits

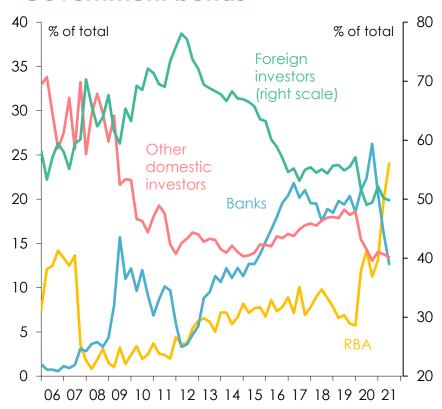


- ☐ Banks have cut interest rates on small business loans by more than the official cash rate since June 2019 (when the RBA started cutting rates again)
- Banks have made credit readily available when needed in the early stages of the pandemic and during the most recent lockdowns
- Banks extended 'repayment holidays' to business and home mortgage borrowers who requested it
 - in May last year, 11% of mortgage borrowers and 18% of SME borrowers were deferring debt service payments
- ☐ Bank deposits have swelled by \$386bn (181/4%) since February last year as customers have 'parked' precautionary loan drawings, additional savings and withdrawals from superannuation funds
 - almost all of this has gone into transaction deposits which don't pay interest – so banks haven't drawn as much as might otherwise have been expected from the RBA's Term Funding Facility
- ☐ Household deposits have risen by \$183bn (18½%) since last February – of which \$36bn has been sourced from early release of superannuation savings – while business deposits have risen by \$138bn (23%)
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CORINNA ECONOMIC ADVISORY INDEPENDENT ECONOMICS

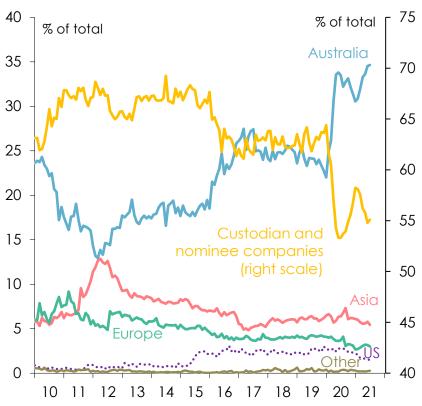
The RBA has (indirectly) absorbed almost two-thirds of the increase in government debt since the end of 2019, banks 2% and foreigners 31%

Holders of Australian Government bonds



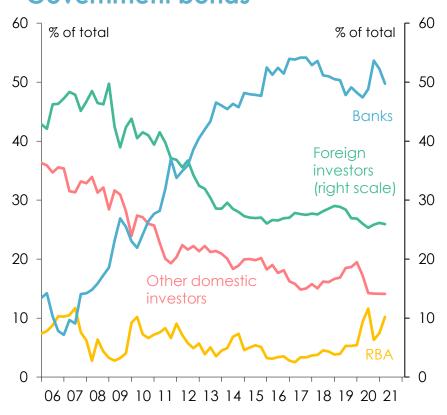
Australian Gov't bonds on issue have increased by \$237bn since the end of 2019 – of which \$173bn (73%) have been absorbed by the RBA, and \$72bn by foreigners, while banks have reduced their holdings by \$7bn

Nationality of Australian Government bond holders



Domestic holdings of Australian Gov't bonds (including RBA) rose by \$57bn over the 12 months to June while identified foreign holdings fell \$7bn – although unidentified holdings (which include many foreigners) rose by \$85bn

Holders of State and Territory Government bonds



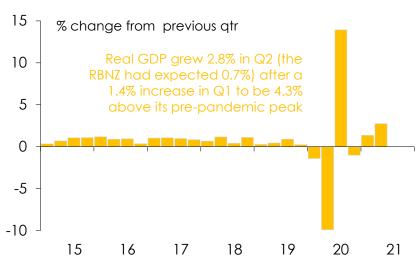
State & Territory Gov't bonds on issue increased have increased by \$107bn since the end of 2019, of which \$45bn have been absorbed by banks, \$40bn by the RBA and \$29bn by foreigners



New Zealand

New Zealand's economy grew a much stronger-than-expected 2.8% in Q2 – but it was all due to net exports, and domestic demand contracted

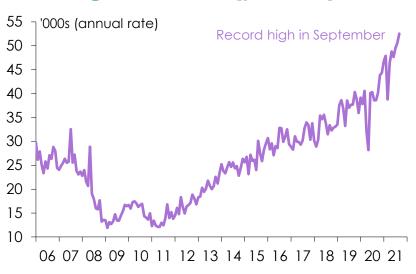
Real GDP



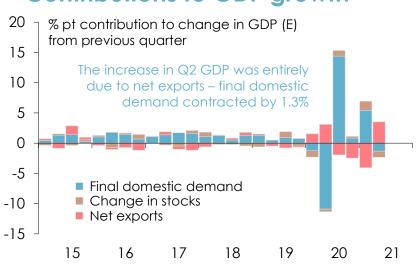
Consumer confidence



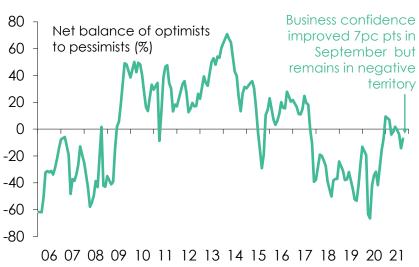
Dwelling 'consents' (permits)



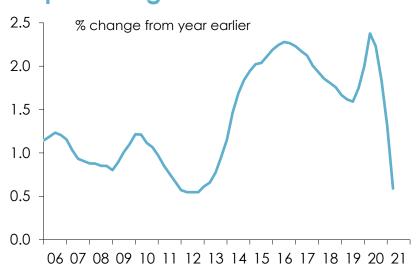
Contributions to GDP growth



Business confidence



Population growth

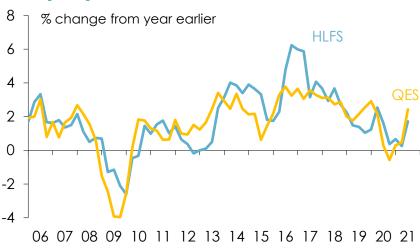






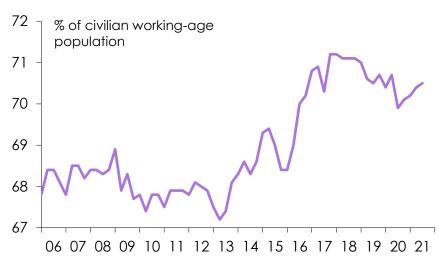
Employment rose 1.1% in Q2 (to 1.3% above pre-pandemic peak) and unemployment dropped to 4%

Employment





Labour force participation rate



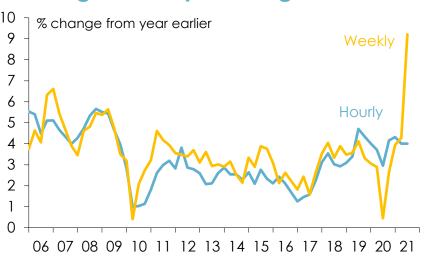
Unemployment rate



Labour force under-utilization rate



Average weekly earnings

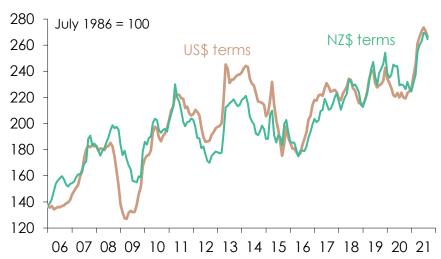


Note: New Zealand labour force data are only published quarterly. There are two 'headline' series on employment – the household labour force survey (HLFS) which counts the number of people in employment during the quarter; and the quarterly employment survey (QES), which counts the number of 'filled jobs' at 'economically significant enterprises' in the 'reference week' in the middle of the quarter, excluding the self-employed and those working in agriculture and fishing. The labour force under-utilization rate measures those who are unemployed plus those who are employed part-time but working fewer hours than they are able and willing to work. Source: Statistics NZ. September guarter data will be released on 3rd November. Return to "What's New".

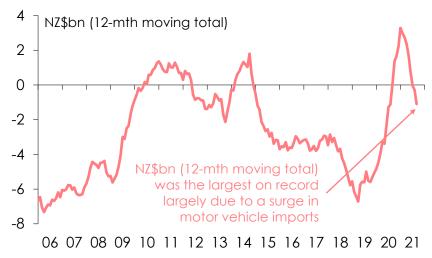


Although New Zealand's export commodity prices are at a record high, unlike Australia its current account has remained in deficit

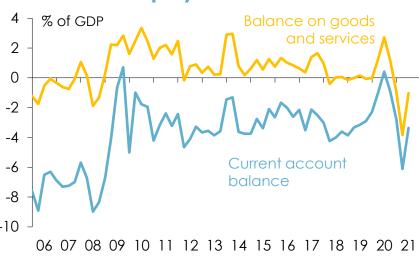
Export commodity prices



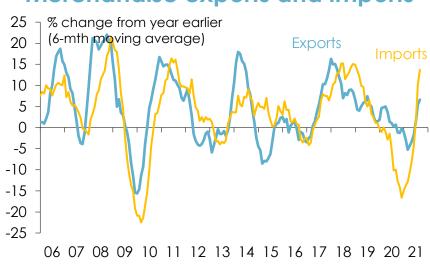
Merchandise trade balance



Balance of payments



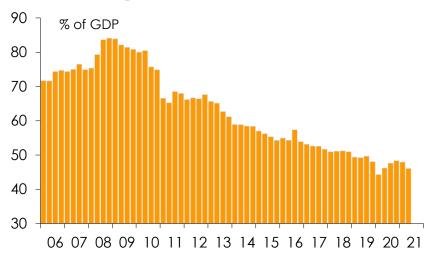
Merchandise exports and imports



Overseas visitor arrivals



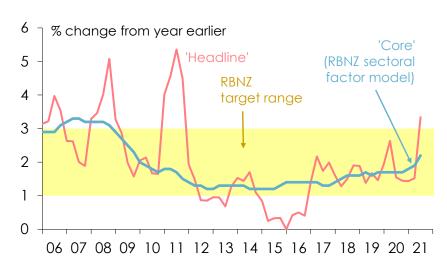
Net foreign debt



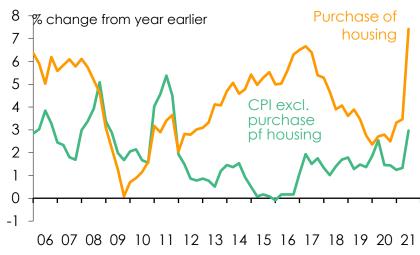


The Q2 CPI was a 'shocker', rising 1.3%, half a percentage point above market expectations, driven largely by housing costs

Consumer prices



Housing costs in the CPI

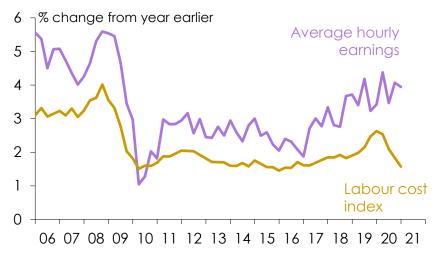


- The CPI rose 1.3% in Q2, the largest q-o-q increase since Q3 2008, pushing the annual 'headline' inflation rate up to 3.3%, the highest since Q3 2011
- 89% of the Q2 increase in the CPI came from 7 components representing 31% of the CPI basket housing purchase (30% of the Q2 increase), petrol (17%), vegetables (16%), games, toys & hobbies (7½%), clothing (7%), rents (7%) and take-away food (5%)
 - these six components also accounted for 57% of the increase in the CPI from Q2 last year
- ☐ The annual rate of 'core' inflation as measured by the RBNZ's 'sectoral factor model', rose to 2.2% in Q2, the highest since Q3 2009, from 1.9% in Q1
 - The RBNZ had expected some pick-up in headline inflation in Q2 but the outcome was 0.7 pc pt above its most recent forecast

Components of 'core' inflation

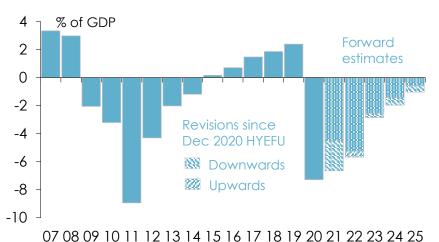


Labour costs

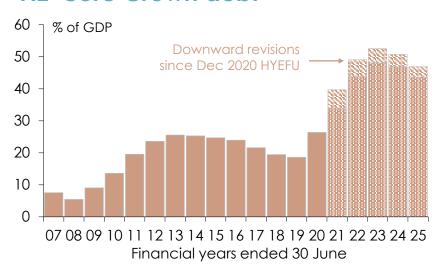


The 2021 NZ Budget uses gains from an improved economic outlook to fund additional spending as well as a slightly improved 'bottom line'

NZ government 'operating balance excluding gains & losses' ('OEBGAL')



NZ 'core Crown debt'

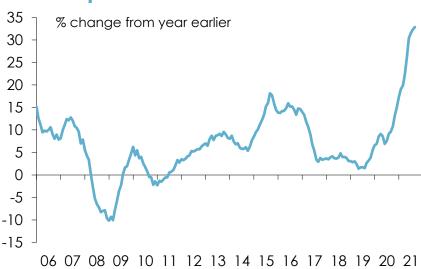


- As was also the case in Australia, the 2021-22 New Zealand Budget presented by Finance Minister Grant Robertson in May benefited from a much stronger economic performance than had been anticipated in last year's Budget, or in last December's Half-Year Economic & Fiscal Update (HYEFU)
 - Treasury now expects the NZ economy to have grown 2.9% in 2020-21 (cf. 1.5% in HYEFU) and by 3.7% pa over the following two years (cf. 3.1% in HYEFU)
 - unemployment is expected to fall to 5% in June 2022 and 4.2% by June 2024, instead of increasing to 6.8% in June 2022 and then falling to 4.7% by June 2024
- □ The Budget applies most of the revenue windfall from this improved economic outlook (and transfers from unspent allocations to the \$50bn Covid Response and Recovery Fund established last year) to fund new spending initiatives totalling almost NZ\$20bn over the five years to 2024-25
 - of which the most significant are increases in benefit payments of up to \$55/week (consciously reversing cuts made in the 1990 Budget) and increased spending on health and housing
- Nonetheless the Budget also reduced the 'OBEGAL' and 'residual cash' deficits for the five years to 2024-25 by \$9bn
 - the 'OBEGAL' deficit is forecast to decline from 2019-20's peak of 7.3% of GDP to 4.5% of GDP in 2020-21, increase slightly to 5.3% of GDP in 2021-22, then decline to 0.6% of GDP in 2024-25 and to return to surplus by 2026-27
- As a result 'core Crown net debt' is expected to peak at 48% of GDP in June 2023 (down from 52.6% at HYEFU) and then decline to 43.6% of GDP by June 2025, and longer term to drop below 20% of GDP in 2034



NZ's housing price boom has been fuelled by investors (a large proportion of them with very high LVRs) – but recent changes have had some impact

House price inflation



Lending to investors as pc of total



Average new mortgage



Mortgage lending growth



High-LVR loans to investors



Loans to FTBs at over 5 times income





The RBNZ last week further reduced the ceiling on high LVR mortgage lending from 20% to 10%

- □ The RBNZ last week <u>delivered</u> on its foreshadowed further tightening of macro-prudential controls on mortgage lending, lowering the limit on the proportion of loans that can be originated at LVRs of more than 80% from 20% to 10% with effect from 1st October
- □ This latest announcement comes after the RBNZ and the Minister of Finance last month signed a <u>Memorandum of Understanding on Macro-Prudential Policy</u> which
 - defines the objectives of macro-prudential policy as being "to increase the resilience of the domestic financial system" and to counter instability in that system arising from "credit, asset price or liquidity shocks"
 - and lists the instruments which the RBNZ may use in order to "address the systemic risks of financial instability" including adjustments to banks' Core Funding Ratio, a Countercyclical Capital Buffer requirement, adjustments to sectoral capital requirements, and 'quantitative restrictions' on loans to the residential property sector
- ☐ The new development in the MoU is the specification of 'debt serviceability restrictions' on loans for purchase of residential property
 - specifically, caps on the ratio of mortgage or total debt to income for individual borrowers, or on the percentage of a borrowers' income that can be used for debt service payments, and floors on the interest rates that banks use in their loan serviceability assessments
 - these would be in addition to restrictions on the share of new high loan-to-valuation ratio lending that banks may undertake (which have already been imposed this year) and outright limits on the proportion of the value of a property that can be borrowed
- These steps in turn follow a series of tax policy and other measures <u>announced by the Government</u> in March designed to dampen investor demand for housing and encourage stronger growth in new dwelling construction, removing the tax-deductibility of interest on property investment loans, and including capital gains on investment properties (other than 'new builds') held for less than 10 years in income for tax purposes

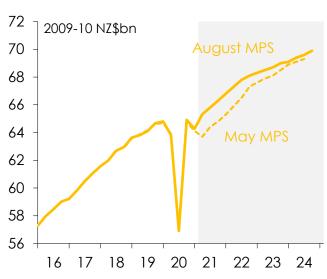
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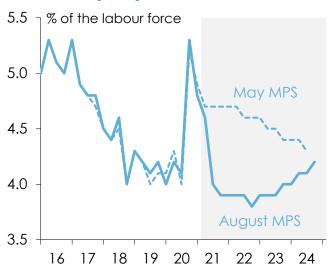
INDEPENDENT ECONOMICS

The RBNZ's Monetary Policy Committee kept the cash rate on hold last month, but only because of the latest Covid outbreak and lockdown

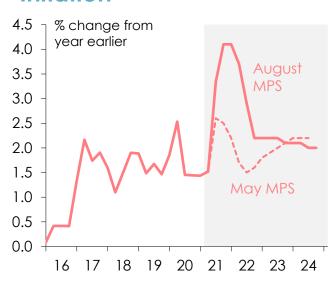
GDP



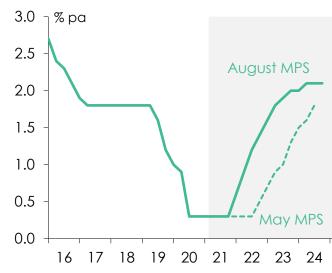
Unemployment



Inflation



Official cash rate



Source: Reserve Bank of New Zealand, <u>Monetary Policy Statement August 2021</u>. The next MPS will be released on 24th November. <u>Return to "What's New"</u>.

- □ The RBNZ had been widely expected to raise its OCR at last month's MPC meeting, but it instead <u>decided</u> to keep it at 0.25% "for now", given the "heightened uncertainty with the country in a lockdown" imposed the day before
- ☐ This was notwithstanding the MPC's view that "their least regrets policy" was to have raised the OCR "so as to anchor inflation expectations and to contribute to maximum sustainable employment"
- The MPC assessed that employment was "at or above its maximum sustainable level", having regard to the inability of employers to "source labour from abroad" and to the fact that the "additional labour capacity" within NZ was largely among people who had previously worked in tourism and who "may not always have the skills needed" ...
- ... which in turn meant "increased wage pressures at any given unemployment rate", of which "the latest labour market data provided early evidence"
- □ The MPC also judged that NZ house prices were "above their sustainable level"
 - The RBNZ assessed that the nominal neutral interest rate is about 2% and its latest projections suggest that the OCR (which it identified as the "preferred tool" for adjusting monetary policy") will reach that level

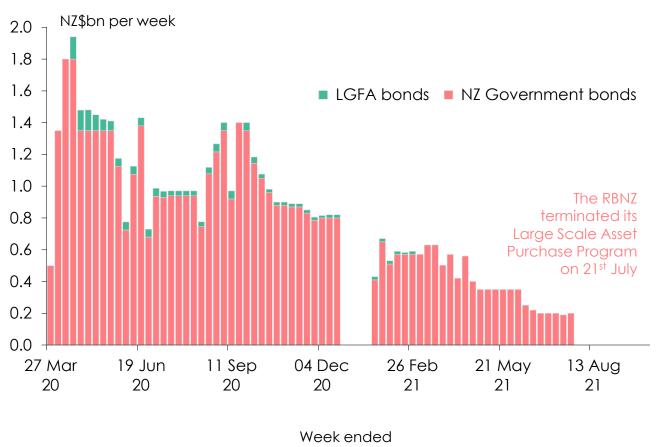
 by Q3 2023

 CORINNA ECONOMIC ADVISORY

INDEPENDENT ECONOMICS

Short-term NZ bond yields remained priced for a 25 bp increase in the OCR this coming Wednesday, while longer-term yields continued to rise

RBNZ open market bond purchases



New Zealand interest rates



- □ Short-term NZ bond yields were little changed this week, having declined by around 10 bp last week following a speech by RBNZ Assistant Governor Christian Hawkesby which seemed to downplay the likelihood that the RBNZ will raise rates by 50bp when it next meets on this Wednesday (as the market had been more-than-half pricing)
- ☐ However longer-term yields continued to rise in line with global trends, with the 10-year finishing at 1.99%



Important information

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